REGISTERS SUPPLEMENT

Introduction

This supplement provides a listing of all registers used for storing and controlling data in the meter. Some of these registers can be accessed during meter configuration. Configuration can be done either through the front panel buttons or via a PC using the manufacturer's Meter Configuration Utility program.

The registers are also available for use with a macro. Macros can be pre-configured into the meter by the manufacturer, or written and uploaded to the meter by the user via the manufacturer's Macro Compiler program.

See TDS Compiler Tutorial (NZ212) for more details

Chapters

1 Numerical Listing lists registers and descriptions numerically. This listing contains a full description for each register.

2 Functional Grouping groups register names and numbers by functional groups and acts as the index for this supplement.

Register Overview

The register map for the Tiger 380 meter is different to that of the standard Tiger 320 range. The following overview shows how register types are arranged over the entire register map.

32 bit Fixed Point (1 - 1023)

Register addresses 1 to 1023 are used for 32 bit fixed point addresses. To accommodate for Modbus usage of 32 point registers, only odd register addresses are used, giving a maximum of 511 registers.

32 bit Floating Point Registers (1025 – 2047)

Register addresses 1025 to 2047 are used for 32 bit floating point addresses. To accommodate for Modbus usage of 32 point registers, only odd register addresses are used, giving a maximum of 511 registers.

24 bit Fixed Point (2049 - 4095)

Register addresses 2049 to 4095 are used for 24 bit fixed point addresses. To accommodate for Modbus usage of 24 point registers, only odd register addresses are used, giving a maximum of 1023 registers.

16 bit Fixed Point (4097 – 8192)

Register addresses 4097 to 8192 are used for 16 bit fixed point addresses. Both odd and even addresses in this range are used, giving a maximum of 4096 registers.

8 bit Fixed Point (8193 - 16384)

Register addresses 8193 to 16384 are used for 8 bit fixed point addresses. Both odd and even addresses in this range are used, giving a maximum of 8192 registers.

Text Registers (16385 – 20479)

Register addresses 16385 to 20479 are used for accessing text strings. Only odd addresses in this range are used, giving a maximum of 2047 text strings. These registers 16385 to 16525 are arranged so that they relate to registers numbers 1 to 141 with an offset of 16384 added to them.

Macro Code Registers (32769 - 65536)

Register addresses 32769 to 65536 are 16 bit unsigned registers used for macro code storage. Both odd and even addresses in this range are used, giving a maximum of 32767 registers.

Symbol Types

The Type column uses the following abbreviations to identify the register type:

- B_ The symbol B_ is followed by a number from 0 to 31 and describes the register bit number.
- F_32 The symbol F_32 identifies the register as a floating point 32-bit register.
- _R The symbol _R identifies the register as a read only register.
- S_ The symbol S_ is followed by either 16, 24, or 32, identifying the register as a 16, 24, or 32-bit signed integer.
- _T The symbol _T indicates that the register is reserved for testing purposes by Texmate.
- U_ The symbol U_ is followed by either 8 or 16, identifying the register as an 8 or 16-bit unsigned integer.

Reg.	Туре	Register Name	Register Description
1	S_32	DISPLAY	32 bit register for primary display data
7	S_32	RESULT	Non volatile 32 bit register for result data
9	S_32	CH1	Non volatile 32 bit register for channel 1 data
11	S_32	CH2	Non volatile 32 bit register for channel 2 data
13	S_32	СНЗ	Non volatile 32 bit register for channel 3 data
15	S_32	CH4	Non volatile 32 bit register for channel 4 data
17	S_32	CH5	Non volatile 32 bit register for channel 5 data
19	S_32	CH6	Non volatile 32 bit register for channel 6 data
21	S_32	CH7	Non volatile 32 bit register for channel 7 data
			The above registers are normally updated by the operating system of the controller after a new input sample is processed. If the channel is disabled or in a counter mode, it is also possible to modify the contents of the register by writing to it from the setpoint reset logic, the Macro or via the serial port. A write to these registers in any other operational mode may result in the newly written value being over written by the operating system in the controller. A write to the CHx_PROCESSED, CHx_RAW, or CHx_SCALED registers will modify only that register. A write to the CHx register will automatically update CHx_PROCESSED, CHx_RAW, and CHx_SCALED. The controller will take into account scale
			and offset and post processing and calulate the CHx_RAW value. (This is useful to reset the count in counter applications which use a scale and offset value other than 1 and 0).
			Note: 32 point linearization is not supported by the above feature.
			A read of CHx register is identical to a read of CHx_PROCESSED register.
37	S_32	TOTAL1	Non volatile 32 bit register for Totalisator 1 value
39	S_32	TOTAL2	Non volatile 32 bit register for Totalisator 2 value
41	S_32	TOTAL3	Non volatile 32 bit register for Totalisator 3 value
43	S_32	TOTAL4	Non volatile 32 bit register for Totalisator 4 value
45	S_32	TOTAL5	Non volatile 32 bit register for Totalisator 5 value
47	S_32	TOTAL6	Non volatile 32 bit register for Totalisator 6 value
57	S_32	PEAK1	32 bit register for Peak 1 value
59	S_32	VALLEY1	32 bit register for Valley 1 value
61	S_32	PEAK2	32 bit register for Peak 2 value
63	S_32	VALLEY2	32 bit register for Valley 2 value
C.F.	0.00	DEAKO	00 hit wasistan fan Daals O walke
65 67	S_32 S_32	PEAK3 VALLEY3	32 bit register for Peak 3 value
07	3_32	VALLETS	32 bit register for Valley 3 value
77	S_32	TARE	32 bit register for Tare value
79	S_32	AUX1	Registers 79 - 109 are 16 non volatile 32 bit auxiliary registers in odd numbers.
to	0_02	to	Trogration 70 Too are 10 from volutile of the advisiting registers in odd framboto.
109		AUX16	
111	C 22	SETPOINT1	20 hit register for Cataciat 1 value
111	S_32 S_32	SETPOINT1 SETPOINT2	32 bit register for Setpoint 1 value 32 bit register for Setpoint 2 value
115	S_32	SETPOINT3	32 bit register for Setpoint 3 value
117	S_32	SETPOINT4	32 bit register for Setpoint 4 value
119	S_32	SETPOINT5	32 bit register for Setpoint 5 value
121	S_32	SETPOINT6	32 bit register for Setpoint 6 value
140	11.00	TIMED4	00 kit timen counts on one 04 counts (40.0 cm)
143	U_32	TIMER1	32 bit timer counts up every 0.1 seconds (13.6 years) can be set/reset by macro
145 147	U_32 U_32	TIMER2 TIMER3	32 bit timer counts up every 0.1 seconds (13.6 years) can be set/reset by macro 32 bit timer counts up every 0.1 seconds (13.6 years) can be set/reset by macro
149	U_32	TIMER4	32 bit timer counts up every 0.1 seconds (13.6 years) can be set/reset by macro
151	U_32_R	HRS_MIN_SEC	32 bit time stamp from real time clock in Hrs:Min:Sec format.
155	S_32	INTEGER_VARIABLE1	Registers 155 to 193 are 32 bit integer registers used for macro variable space.
to		to	Odd numbers.
193		INTEGER_VARIABLE20	
231	S_32	EDIT_VALUE	32 bit register holds the currently displayed value when in any edit mode

Reg.	Туре	Register Name	Register Description
233	S_32	EDIT_MAX	32 bit register. Sets the maximum allowable range in edit mode
235	S_32	EDIT_MIN	32 bit register. Sets the minimum allowable range in edit mode
237	S_32	EDIT_DEF	32 bit register. Sets the default value when Up&Down buttons are pressed in edit mode
239	U_32	ALARM_STATUS	32 bit value showing status of Setpoints.
239	B_0	SP1	Register 1 is a 32 bit register which contains flags to indicate the status of the
239	B_1	SP2	6 set-points and rising or falling tendency. In the normal mode of operation, the
239	B_2	SP3	status of each setpoint is controlled by the meter, based on a comparison between
239	B_3	SP4	the input value and the setpoint value. Each setpoint can individually be placed into
239	B_4	SP5	remote mode by setting the appropriate mode control bit (bits 8 - 13). In remote
239	B_5	SP6	mode, the input value and setpoint values have no effect on the setpoint status.
239	B_6	TREND_UP	Instead, the status of the setpoint is controlled directly by setting or clearing the
239	B_7	TREND_DOWN	appropriate status bit. This can be done from the serial port or from a Macro.
239	B_8	SP1_REMOTE	The following description shows the function of each bit when reading the alarm status.
239	B_9	SP2 REMOTE	Status.
239	B_10	SP3 REMOTE	status. Alarm Status Read
239	B_11	SP4 REMOTE	Bit $0 = \text{Set-point } 1 \ (0 = \text{off, } 1 = \text{on})$
239	B_12	SP5 REMOTE	Bit $1 = \text{Set-point} \cdot (0 = \text{off}, 1 = \text{on})$
239	B 13	SP6 REMOTE	Bit 2 = Set-point 3 (0 = off, 1 = on)
			Bit $3 = \text{Set-point } 4 \ (0 = \text{off}, 1 = \text{on})$
			Bit $4 = \text{Set-point } 5 \ (0 = \text{off}, 1 = \text{on})$
			Bit $5 = \text{Set-point } 6 \ (0 = \text{off}, \ 1 = \text{on})$
			Bit 6 = Rising tendency (1 = rising)
			Bit 7 = Falling tendency (1 = falling)
			Bit 8 = Remote setpoint mode for set-point 1 (0 = normal mode, 1 = remote mode) Bit 9 = Remote setpoint mode for set-point 2 Bit 10 = Remote setpoint mode for set point 2
			Bit 10 = Remote setpoint mode for set-point 3 Bit 11 = Remote setpoint mode for set-point 4
			Bit 12 = Remote setpoint mode for set-point 5
			Bit 13 = Remote setpoint mode for set-point 6
			Bit 14-31 = Reserved for future use (these bits will always be read as 0)
			Note: Bits $0-5$ indicate the setpoint status only, not the relay status. Setpoint timer and manual reset settings could cause the relay status to be different from the setpoint status. For relay status, see register #4099.

The following description shows the function of each bit when writing to the alarm status.

```
Alarm Status Write
Bit 0 = \text{Setpoint 1} (0 = \text{off}, 1 = \text{on})
Bit 1 = \text{Setpoint } 2 (0 = \text{off}, 1 = \text{on})
Bit 2 = Setpoint 3 (0 = off, 1 = on)
Bit 3 = Setpoint 4 (0 = off, 1 = on)
Bit 4 = Setpoint 5 (0 = off, 1 = on)
Bit 5 = Setpoint 6 (0 = off, 1 = on)
Bit 6 = Don't care (read only bits - see alarm status read above)
Bit 7 = Don't care (read only bits - see alarm status read above)
Bit 8 = Remote setpoint mode for set-point 1 (0 = normal mode, 1 = remote mode)
Bit 9 = Remote setpoint mode for set-point 2
Bit 10 = Remote setpoint mode for set-point 3
Bit 11 = Remote setpoint mode for set-point 4
Bit 12 = Remote setpoint mode for set-point 5
Bit 13 = Remote setpoint mode for set-point 6
Bit 9 - 31 = Reserved for future use (these bits should be written as 0)
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Note: Bits 0-5 indicate the setpoint status only, not the relay status. Setpoint timer and manual reset settings could cause the relay status to be different from the setpoint status. For relay status, see register #4099.

Pulse Width Modulation (PWM) Mode

If SP1 is set to remote while operating in PID mode, then relay1 functions as a manual pulse width modulation (PWM) output. In this mode, the PWM duty cycle can be set from 0% to 100.0% directly by writing to the PID output register #4125. The PWM cycle time can be set from 0.1 to 1000.0 seconds by writing to register #426. In this mode, the PID algorithm is not functional and all other PID settings have no effect on the PID output register or relay status.

The above example is given for SP1 only but the same applies SP1 - SP6

241 U_32 GENERAL_PURPOSE_FLAGS 32

32 bit register which contains general purpose bit flags for macro use.

Reg.	Туре	Register Name	Register Description
241	B_0	GPF1	General purpose bit flags for macro use. Also settable via LCD panel using RPC(101) command.
	to B_31	to GPF32	hro(101) command.
247	U_32	SWITCHES	32 bit register contains flags for front panel switches.
247	B_0	PROG_BUTTON	flag shows the current status of the program button (On=button pressed).
247	B_1	DOWN_BUTTON	flag shows the current status of the down button (On=button pressed).
247 247	B_2 B_3	UP_BUTTON	flag shows the current status of the up button (On=button pressed). flag shows the current status of lock switch 2 (On= main program locked).
247	В_3 В_4	LOCK_UP_SWITCH LOCK_DOWN_SWITCH	flag shows the current status of lock switch 1 (On= setpoint programming mode
	_		locked).
247	B_5	F1_BUTTON	flag shows the current status of the function 1 button (On=button pressed).
247	B_6	F2_BUTTON	flag shows the current status of the function 2 button (On=button pressed).
247	B_7	F3_BUTTON PEMOTE SWITCH	flag shows the current status of the function 3 button (On=button pressed).
247	B_15	REMOTE_SWITCH	When set, this bit disables operation of all front panel switches. Register 247 is a 32 bit register used to read the status of the switches or to disable the front panel switches and manually control switch depressions from the serial port. An explanation of the function of each bit is given below:
			Bit 0 = Program Button (0 = off (open), 1 = on (closed)) Bit 1 = Down Button (0 = off (open), 1 = on (closed)) Bit 2 = Up Button (0 = off (open), 1 = on (closed)) Bit 3 = Lock up switch (0 = off (open), 1 = on (closed)) Bit 4 = Lock down switch (0 = off (open), 1 = on (closed)) Bit 5 = Func1 button (0 = off (open), 1 = on (closed)) Bit 6 = Func2 button (0 = off (open), 1 = on (closed)) Bit 7 = Func3 button (0 = off (open), 1 = on (closed)) Bit 8 = Reserved for future use Bit 9 = Reserved for future use Bit 10 = Reserved for future use Bit 11 = Reserved for future use Bit 12 = Reserved for future use Bit 13 = Reserved for future use Bit 14 = Reserved for future use Bit 15 = Switch disable (0 = normal mode, 1 = remote switch mode) Bit 16 = Reserved for future use Bit 17 = Reserved for future use Bit 19 = Reserved for future use Bit 19 = Reserved for future use Bit 20 = Reserved for future use Bit 21 = Reserved for future use Bit 21 = Reserved for future use Bit 22 = Reserved for future use Bit 23 = Reserved for future use Bit 24 = Reserved for future use
			Bit 25 = Reserved for future use
			Bit 26 = Reserved for future use
			Bit 27 = Reserved for future use
			Bit 28 = Reserved for future use Bit 29 = Reserved for future use
			Bit 29 = Reserved for future use Bit 30 = Reserved for future use
			Bit 31 = Reserved for future use
			If bit 15 of register 247 is 0 (normal mode of operation), a read of the register will show the current status of the above switches and input pins. A write to bits $0-6$ while in the normal mode is not recommended and will produce an unreliable result.
249	U_32	DIGITAL_OUT	32 bit register with output bit flags for multi I/O modules.
249	B_0 to	DO_1 to	Register 249 is a 32 bit register which contains bit flags to control up to 32 digital outputs. It is designed to be used with a macro and requires one or more IO ex-
	B_31	DO_32	pansion modules to be fitted to the meter. The bit functions are as follows;
			Bit 0 = Output DO_1 (1 = active state), 0 = inactive state)
			Bit 1 = Output DO_2 (1 = active state), 0 = inactive state)
			Bit 2 = Output DO_3 (1 = active state), 0 = inactive state)
			Bit 31 = Output DO_32 (1 = active state), 0 = inactive state)
			Dit $01 = 0$ utput 00_02 ($1 = a$ ctive state), $0 = \text{Inactive state}$

Reg.	Туре	Register Name	Register Description
251	U_32_R	DIGITAL_IN	32 bit read only register with bit flags for multi I/O modules.
251	B_0_R	DI_1	Register 251 is a 32 bit register which contains bit flags to read up to 32 digital
	to	to	inputs. It is designed to be used with a macro and requires one or more IO expansion modules to be fitted to the meter. The bit functions are as follows;
	B_31_R	DI_32	sion modules to be litted to the meter. The bit functions are as follows,
			Bit 0 = Input DI_1 (1 = active state, 0 = inactive state)
			Bit 1 = Input DI_2 (1 = active state, 0 = inactive state)
			Bit 2 = Input DI_3 (1 = active state, 0 = inactive state)
			Bit 31 = Input DI_32 (1 = active state, 0 = inactive state)
			Bit of = input bi_oz (i = active state, o = inactive state)
257	S_32	RESULT_PROCESSED	32 bit register holds the processed data for the result channel.
259	S_32	CH1_PROCESSED	32 bit register holds the processed data for channel 1.
261	S_32	CH2_PROCESSED	32 bit register holds the processed data for channel 2.
263	S_32	CH3_PROCESSED	32 bit register holds the processed data for channel 3.
265 267	S_32 S_32	CH4_PROCESSED CH5_PROCESSED	32 bit register holds the processed data for channel 4. 32 bit register holds the processed data for channel 5.
269	S_32 S_32	CH6_PROCESSED	32 bit register holds the processed data for channel 5. 32 bit register holds the processed data for channel 6.
271	S_32	CH7_PROCESSED	32 bit register holds the processed data for channel 7.
	0_02		52 St. 10gloto. Hotab tilo processod data for strainer in
281	S_32	RESULT_RAW	32 bit register holds the raw result data, prior to scaling and post processing.
283	S_32	CH1_RAW	32 bit register holds the raw data for channel 1, prior to scaling and post process-
205	C 20	CH2 DAW	ing.
285	S_32	CH2_RAW	32 bit register holds the raw data for channel 2, prior to scaling and post processing.
287	S_32	CH3_RAW	32 bit register holds the raw data for channel 3, prior to scaling and post process-
-		_	ing.
289	S_32	CH4_RAW	32 bit register holds the raw data for channel 4, prior to scaling and post process-
			ing.
291	S_32	CH5_RAW	32 bit register holds the raw data for channel 5, prior to scaling and post process-
293	S_32	CH6_RAW	ing. 32 bit register holds the raw data for channel 6, prior to scaling and post process-
200	0_02	OHO_HAW	ing.
295	S_32	CH7_RAW	32 bit register holds the raw data for channel 7, prior to scaling and post process-
			ing.
	0.00	DECLUT 0041 ED	
305 307	S_32	RESULT_SCALED	32 bit register holds the scaled result data, before any post processing.
309	S_32 S_32	CH1_SCALED CH2_SCALED	32 bit register holds the scaled data for channel 1, before any post processing. 32 bit register holds the scaled data for channel 2, before any post processing.
311	S_32	CH3_SCALED	32 bit register holds the scaled data for channel 3, before any post processing.
313	S_32	CH4_SCALED	32 bit register holds the scaled data for channel 4, before any post processing.
315	S_32	CH5_SCALED	32 bit register holds the scaled data for channel 5, before any post processing.
317	S_32	CH6_SCALED	32 bit register holds the scaled data for channel 6, before any post processing.
319	S_32	CH7_SCALED	32 bit register holds the scaled data for channel 7, before any post processing.
329	S_32	SMART_RESULT1	32 bit register holds result 1 when a smart input module is used.
331	S_32	SMART_RESULT2	32 bit register holds result 2 when a smart input module is used.
333	S_32	SMART_RESULT3	32 bit register holds result 3 when a smart input module is used.
335	S_32	SMART_RESULT4	32 bit register holds result 4 when a smart input module is used.
337	S_32	SMART_RESULT5	32 bit register holds result 5 when a smart input module is used.
339	S_32	SMART_RESULT6	32 bit register holds result 6 when a smart input module is used.
341	S_32	SMART_RESULT7	32 bit register holds result 7 when a smart input module is used.
349	S_32	RECEIVE_RESULT1	32 bit register holds the 1st numeric value received in a string via serial port 1.
349 351	S_32 S_32	RECEIVE_RESULT2	32 bit register holds the 1st numeric value received in a string via serial port 1.
353	S_32	RECEIVE_RESULT3	32 bit register holds the 1st numeric value received in a string via serial port 3.
		- ·	
357	S_32	OFFSET_RESULT	32 bit register holds the calibration offset for the result channel.
359	S_32	OFFSET_CH1	32 bit register holds the calibration offset for channel 1.
361	S_32	OFFSET_CH2	32 bit register holds the calibration offset for channel 2.
363 365	S_32 S_32	OFFSET_CH4	32 bit register holds the calibration offset for channel 3. 32 bit register holds the calibration offset for channel 4.
367	S_32 S_32	OFFSET_CH4 OFFSET_CH5	32 bit register holds the calibration offset for channel 5.
369	S_32	OFFSET_CH6	32 bit register holds the calibration offset for channel 6.
371	S_32	OFFSET_CH7	32 bit register holds the calibration offset for channel 7.
381	S_32	D2A_AOP1_ZERO	32 bit register holds the zero scale value for analogue O/P 1.
383	S_32	D2A_AOP2_ZERO	32 bit register holds the zero scale value for analogue O/P 2.
385 387	S_32 S_32	D2A_AOP3_ZERO D2A_AOP4_ZERO	32 bit register holds the zero scale value for analogue O/P 3. 32 bit register holds the zero scale value for analogue O/P 4.
389	S_32	D2A_AOP5_ZERO	32 bit register holds the zero scale value for analogue O/P 4.

Reg.	Туре	Register Name	Register Description
391	S_32	D2A_AOP6_ZERO	32 bit register holds the zero scale value for analogue O/P 6.
393	S_32	D2A_AOP7_ZERO	32 bit register holds the zero scale value for analogue O/P 7.
395	S_32	D2A_AOP8_ZERO	32 bit register holds the zero scale value for analogue O/P 8.
405	S_32	D2A_AOP1_FULL_SCALE	32 bit register holds the full scale value for analogue O/P 1.
407	S_32	D2A_AOP2_FULL_SCALE	32 bit register holds the full scale value for analogue O/P 2.
409	S_32	D2A_AOP3_FULL_SCALE	32 bit register holds the full scale value for analogue O/P 3.
411	S_32	D2A_AOP4_FULL_SCALE	32 bit register holds the full scale value for analogue O/P 4.
413	S_32	D2A_AOP5_FULL_SCALE	32 bit register holds the full scale value for analogue O/P 5.
415	S_32	D2A_AOP6_FULL_SCALE	32 bit register holds the full scale value for analogue O/P 6.
417	S_32	D2A_AOP7_FULL_SCALE	32 bit register holds the full scale value for analogue O/P 7.
419	S_32	D2A_AOP8_FULL_SCALE	32 bit register holds the full scale value for analogue O/P 8.
429	S_32	SP1_RESET_VALUE	32 bit register holds the reset value used with setpoint 1 trigger functions.
429	S_32	PID1_SPAN	32 bit register sets the span value for PID1 from 0 to 99999.
431	S_32	SP2_RESET_VALUE	32 bit register holds the reset value used with setpoint 2 trigger functions.
431	S_32	PID2_SPAN	32 bit register sets the span value for PID2 from 0 to 99999.
433	S_32	SP3_RESET_VALUE	32 bit register holds the reset value used with setpoint 3 trigger functions.
433	S_32	PID3_SPAN	32 bit register sets the span value for PID3 from 0 to 99999.
435	S_32	SP4_RESET_VALUE	32 bit register holds the reset value used with setpoint 4 trigger functions.
435	S_32	PID4_SPAN	32 bit register sets the span value for PID4 from 0 to 99999.
437	S_32	SP5_RESET_VALUE	32 bit register holds the reset value used with setpoint 5 trigger functions.
437	S_32	PID5_SPAN	32 bit register sets the span value for PID5 from 0 to 99999.
439	S_32	SP6_RESET_VALUE	32 bit register holds the reset value used with setpoint 6 trigger functions.
439	S_32	PID6_SPAN	32 bit register sets the span value for PID6 from 0 to 99999.
461	S_32	SPAN	32 bit register. Span value for single/dual point calibration mode.
463	S_32	ZERO	32 bit register. Zero value for single/dual point calibration mode.
465 467	S_32 S_32	SMART_RESET_OFFSET1 SMART_RESET_OFFSET2	Registers 465 & 467 are reset offset registers which are used with certain types of smart input modules. A write to register 465 or 467 will cause the smart input module to reset it's result register 1 or result register 2 respectively. If the data value written to these registers is zero, then the smart input module will write a zero into the appropriate result register. If the data value written to these registers is other than zero, then the smart input module will treat this as an offset and subtract the data value from the appropriate result register.
			A read of these registers will read the last offset value which was written to input module.
			NOTE: These registers are only for use with a smart input module connected to the meter and then only with selected types of smart input module.
469	S_32	INC_DEC_DISPLAY	32 bit register. Permanent memory storage for display value in on demand manual loader mode.
471	S_32	MANUAL_LOADER_DISPLAY	32 bit register. Permanent memory storage for display value in direct display manual loader mode.
473	S_32	BAR_LOW	32 bit register holds the bar graph low end value (for bar graph meters only).
475	S_32	BAR_HIGH	32 bit register holds the bar graph high end value (for bar graph meters only).
479	S_32	VARIABLE_A_INT	32 register for variable A, accessed in fixed point format. Registers 479 & 1121 both address the same physical 32 bit register in memory (Variable A), but differ in the way the register is interpreted. Accessing Variable A through register 1121 will assume the contents have been stored in a 32 bit single precision floating point format. Accessing variable A through register 479 will assume the contents have been stored in a 32 bit fixed point long format. This pair of registers is only intended for use with the macro.

Reg.	Туре	Register Name	Register Description
487	U_32_R	MAX_LOG_SAMPLES	32 bit register. Indicates the maximum number data logging samples available. Register 487 is a 32 bit read only register, which reports the maximum number of log samples available. The maximum number of log samples is defined by the amount of memory fitted, how many registers are being logged and the size of each register to be logged.
489	U_32	LOG_WRITE_POINTER	Register 489 is a 32-bit register that points to the most recent log sample written by the meter. It counts up from 0 each time a new sample is logged, with the maximum number of samples being limited by the size of non-volatile memory installed in the controller and also the number/size of registers to be logged. Before a new sample is written, the controller first checks to make sure that it is not overwriting a sample that has not been read. It does this by comparing the write pointer with the read pointer. If they are the same and the Linear logging mode has been selected, data logging is halted until a read is actioned. If this occurs, any new samples will be lost. If the Cyclic mode has been selected, the oldest sample will be overwritten with new data and the old sample will be lost. When the sample number reaches the maximum count it wraps around to zero.
			Register 489 can read or written to. Make sure that any values written to this pointer are within the allowable range for the size of the installed memory.
491	U_32	LOG_READ_POINTER	Register 491 is a 32-bit register that points to the most recent log sample read from the controller. It counts up from 0 each time log data is read from the controller, with the maximum number of samples being limited by the size of non-volatile memory installed in the controller and also the number/size of registers to be logged. When it reaches the maximum count it wraps around to zero. When it reaches the write pointer the log buffer is empty and no more data can be read out of the log.
			Register 491 can read or written to. Make sure that any values written to this pointer are within the allowable range for the size of the installed memory.
493 to 523	S_32_R	LOG_SAMPLE_REG1 to LOG_SAMPLE_REG16	Read only registers. Registers 493 to 523 give numeric values for the 1st through to the 16th register logged in accordance with registers 4417 to 4432. The size and type will vary depending on the size and data type of the registers addressed by registers 4417 to 4432. These registers give an unformatted numeric value which can be read in ASCII or any other serial mode.
			If sample does not contain the data that is requested, the meter will respond by sending a null character in ASCII mode or a data error in Modbus mode.
1025	F_32	FLOAT_VARIABLE1	Non volatile 32 bit floating point registers for macro for variable space.
to 1055		to FLOAT_VARIABLE16	
1057	F_32	PID1_ERROR_SUM	32 bit floating point registers for PID.
1059 1061	F_32 F_32	PID2_ERROR_SUM PID3_ERROR_SUM	Registers 1057 - 1079 are 32 bit floating point registers used by the PID control algorithms.
1063	F_32	PID4_ERROR_SUM	Registers 1057 – 1067 show the Error Sum term for PID outputs 1 – 6.
1065	F_32	PID5_ERROR_SUM	Registers 1069 – 1079 show the Integral term for PID outputs 1 – 6.
1067 1069	F_32 F_32	PID6_ERROR_SUM PID1_INTEGRAL_TERM	
1071	F_32	PID2_INTEGRAL_TERM	
1073	F_32	PID3_INTEGRAL_TERM	
1075 1077	F_32 F_32	PID4_INTEGRAL_TERM PID5_INTEGRAL_TERM	
1077	F_32	PID6_INTEGRAL_TERM	
1097	F_32	SCALE_FACTOR_RESULT	32 bit floating point register holds the calibration scale factor for the result channel.
1099	F_32	SCALE_FACTOR_CH1	32 bit floating point register holds the calibration scale factor for channel 1.
1101 1103	F_32 F_32	SCALE_FACTOR_CH2 SCALE_FACTOR_CH3	32 bit floating point register holds the calibration scale factor for channel 2. 32 bit floating point register holds the calibration scale factor for channel 3.
1105	F_32	SCALE_FACTOR_CH4	32 bit floating point register holds the calibration scale factor for channel 4.
1107	F_32	SCALE_FACTOR_CH5	32 bit floating point register holds the calibration scale factor for channel 5.
1109 1111	F_32 F_32	SCALE_FACTOR_CH6 SCALE_FACTOR_CH7	32 bit floating point register holds the calibration scale factor for channel 6. 32 bit floating point register holds the calibration scale factor for channel 7.
	02	03/122_1/101011_0111	52 2.1 Housing point register house the equipration code factor for charmer r.

Reg.	Туре	Register Name	Register Description
1121	F_32	VARIABLE_A_FP	32 register for variable A, accessed in floating point format. Registers 479 & 1121 both address the same physical 32 bit register in memory (Variable A), but differ in the way the register is interpreted. Accessing Variable A through register 1121 will assume the contents have been stored in a 32 bit single precision floating point format. Accessing variable A through register 479 will assume the contents have been stored in a 32 bit fixed point long format. This pair of registers is only intended for use with the macro.
1123 1125 1127 1129	F_32 F_32 F_32 F_32	SMART_CAL1 SMART_CAL2 SMART_CAL3 SMART_CAL4	Registers 1123 to 1129 are 32 bit floating point registers, used to store calibration values for smart input modules. Reading or writing these registers will directly access the data in the smart input module itself. A write will write to the smart input module and then backup the data in EEPROM so that it can be sent to the smart input module at power up. The actual function of each register will vary depending on which smart input module is being used. Some smart input modules do not use these registers and any attempt to access them will produce a null response. If there are no smart input modules operating, these registers cannot be read. A write to these registers will always update the EEPROM, regardless of whether an appropriate smart input module is operational at the time.
2049 to	S_24	TABLE1_INPUT1	24 bit register. Input points 1 to 32, 32 point linearisation table 1 range -8388607 - +8388607.
2111	S_24	TABLE1_INPUT32	
2113 to	S_24	TABLE1_OUTPUT1 to	24 bit registers. Output points 1 to 32, 32 point linearisation table 1 range -8388607 - +8388607.
2175	S_24	TABLE1_OUTPUT32	Tange 3300007 +3300007.
2177	S_24	TABLE2_INPUT1	24 bit registers. Input points 1 to 32, 32 point linearisation table 2
to 2239	S_24	to TABLE2_INPUT32	range -8388607 - +8388607.
2241	S_24	TABLE2_OUTPUT1	24 bit registers. Output points 1 to 32, 32 point linearisation table 2
to 2303	S_24	to TABLE2_OUPITPUT32	range -8388607 - +8388607.
2305	S_24	TABLE3_INPUT1	24 bit registers. Input points 1 to 32, 32 point linearisation table 3
to 2367	S_24	to TABLE3_INPUT32	range -8388607 - +8388607.
2369	S_24	TABLE3_OUTPUT1	24 bit registers. Output points 1 to 32, 32 point linearisation table 3
to 2431	S_24	to TABLE3_OUTPUT32	range -8388607 - +8388607.
2433	S_24	TABLE4_INPUT1	24 bit registers. Input points 1 to 32, 32 point linearisation table 4
to 2495	S_24	to TABLE4_INPUT32	range -8388607 - +8388607.
2497	S_24	TABLE4_OUTPUT1	24 bit registers. Output points 1 to 32, 32 point linearisation table 4
to 2559	S_24	to TABLE4_OUTPUT32	range -8388607 - +8388607.
4097	U_16_R	SETPOINT_STATUS_FLAGS	8 bit read only register shows the status of the setpoints.
4097 4097	B_0_R	SP1_STATUS	read only flag shows the status of setpoint 1 in normal & remote mode.
4097	B_1_R B_2_R	SP2_STATUS SP3_STATUS	read only flag shows the status of setpoint 2 in normal & remote mode. read only flag shows the status of setpoint 3 in normal & remote mode.
4097	B_3_R	SP4_STATUS	read only flag shows the status of setpoint 4 in normal & remote mode.
4097 4097	B_4_R B_5_R	SP5_STATUS SP6_STATUS	read only flag shows the status of setpoint 5 in normal & remote mode. read only flag shows the status of setpoint 1 in normal & remote mode.
4031	ה"ח"⊔	01 0_01A100	read only hag shows the status of setpoint 1 in hornial α remote mode.

Reg.	Туре	Register Name	Register Description
4098 4098 4098 4098 4098 4098 4098	U_16_R B_0_R B_1_R B_2_R B_3_R B_4_R B_5_R	TRIGGER_STATUS TRIGGER1 TRIGGER2 TRIGGER3 TRIGGER4 TRIGGER5 TRIGGER6	8 bit read only register contains setpoint trigger status flags. Register 4098 is a single 16 bit read only register which contains 6 flags showing the trigger status for each of the 6 setpoint trigger functions. Each flag is set if the trigger condition selected for that setpoint (i.e. make, break, both, level) is satisfied, and cleared if the trigger condition is false. The function of each bit is shown below. Setpoint Trigger Flags: Bit 0 = Set-point 1 trigger flag (0 = trigger in-active, 1 = trigger activated) Bit 1 = Set-point 2 trigger flag (0 = trigger in-active, 1 = trigger activated) Bit 2 = Set-point 3 trigger flag (0 = trigger in-active, 1 = trigger activated) Bit 3 = Set-point 4 trigger flag (0 = trigger in-active, 1 = trigger activated) Bit 4 = Set-point 5 trigger flag (0 = trigger in-active, 1 = trigger activated) Bit 5 = Set-point 6 trigger flag (0 = trigger in-active, 1 = trigger activated) Bit 6 -15 = Reserved for future development.
4099 4099 4099 4099 4099 4099	U_16 B_0 B_1 B_2 B_3 B_4 B_5	RELAY_STATUS RELAY1 RELAY2 RELAY3 RELAY4 RELAY5 RELAY6	8 bit register contains flags showing the instantaneous status of each relay (this may be different to the setpoint status). This 16 bit register is a read only register which shows the current status of the relays after the set-point processing has been done. The difference between this register and register 249 (alarm status) is that the alarm status register shows the current status of the set-points as opposed to the relays. For example a set-point may have been activated but the relay may not yet be turned on because of a 10 second delay on make. In this case, reading the alarm status register (#249) would show the set-point as active, but reading 4099 would show that the relay had not yet turned on. An explanation of the bit functions for these registers is shown below: Relay Output Flags: Bit 0 = Relay 1 (0 = off, 1 = on) Bit 1 = Relay 2 (0 = off, 1 = on) Bit 2 = Relay 3 (0 = off, 1 = on) Bit 3 = Relay 4 (0 = off, 1 = on) Bit 4 = Relay 5 (0 = off, 1 = on) Bit 5 = Relay 6 (0 = off, 1 = on) Bit 5 = Relay 6 (0 = off, 1 = on)
4100 4100 4100 4100 4100 4100 4100	U_16 B_0 B_1 B_2 B_3 B_4 B_5	SETPOINT_LATCH_FLAGS SP1_LATCH SP2_LATCH SP3_LATCH SP4_LATCH SP5_LATCH SP6_LATCH	8 bit register holds the latching status for setpoints. This is a 16 bit register which controls the latching feature for the set-points. If latching is selected for a set-point and the appropriate bit of register 4100 is set, then the set-point will be latched (either above or below the setpoint value as selected). The set-point can be unlatched by clearing the appropriate bit to zero. This holds true regardless of whether the latching is in the on state or the off state. Unlatching the meter from the front panel buttons or from the lock or hold pin does exactly the same thing. Set-point Latch Mask: Bit 0 = Set-point 1 (0 = set-point unlatched, 1 = set-point latched) Bit 1 = Set-point 2 (0 = set-point unlatched, 1 = set-point latched) Bit 2 = Set-point 3 (0 = set-point unlatched, 1 = set-point latched) Bit 3 = Set-point 4 (0 = set-point unlatched, 1 = set-point latched) Bit 4 = Set-point 5 (0 = set-point unlatched, 1 = set-point latched) Bit 5 = Set-point 6 (0 = set-point unlatched, 1 = set-point latched) Bit 6 - 15 = Don't care

Reg.	Туре	Register Name	Register Description
4101 4101 4101 4101 4101 4101 4101	U_16 B_0 B_1 B_2 B_3 B_4 B_5	RELAY_DE_ENERGISE_FLAGS RLY1_DE_ENERGISE RLY2_DE_ENERGISE RLY3_DE_ENERGISE RLY4_DE_ENERGISE RLY5_DE_ENERGISE RLY6_DE_ENERGISE	8 bit register holds the de-energised status for relays. This is a 16 bit register which controls the de-energising feature for the relays. Register 4101 functions as follows. If the de-energise feature is selected for a set-point, then whenever that set-point is in it's in-active state, the appropriate bit of register 4101 will be set by the software. When the set-point becomes active, register 4101 is used as a mask and the appropriate bit is ANDed with the relay output state. If the result is a "1", then the relay is energised. If the appropriate bit of register 4101 is cleared to a "0" (while the set-point is active), the relay will be de-energised. As soon as the set-point returns to it's in-active state the appropriate bit of register 4101 will be set to a "1" again. If a relay is de-energised via the front panel buttons, register 4101 is modified in the same way. The function of each bit is shown below Relay De-energise Mask:
			Bit 0 = Relay 1 (0 = relay de-energise activated, 1 = relay de-energise in-active) Bit 1 = Relay 2 (0 = relay de-energise activated, 1 = relay de-energise in-active) Bit 2 = Relay 3 (0 = relay de-energise activated, 1 = relay de-energise in-active) Bit 3 = Relay 4 (0 = relay de-energise activated, 1 = relay de-energise in-active) Bit 4 = Relay 5 (0 = relay de-energise activated, 1 = relay de-energise in-active) Bit 5 = Relay 6 (0 = relay de-energise activated, 1 = relay de-energise in-active) Bit 6 - 15 = Don't care
4102 4102 4102 4102 4102 4102 4102	U_16 B_0 B_1 B_2 B_3 B_4 B_5	SP_POWERON_INHIBIT_FLAGS POWERON_INHIBIT_SP1 POWERON_INHIBIT_SP2 POWERON_INHIBIT_SP3 POWERON_INHIBIT_SP4 POWERON_INHIBIT_SP5 POWERON_INHIBIT_SP6	8 bit register contains flags to show which setpoints have been in-active since power-on. Register 4102 is an 16 bit register which contains flags for the reset delay function of the set-points. The function of each bit is shown below; Set-point Power-on Inhibit Bit 0 = Power-on Inhibit SP1 (0=power-on inhibit active, 1=power-on inhibit in-active) Bit 1 = Power-on Inhibit SP2 Bit 2 = Power-on Inhibit SP3 Bit 3 = Power-on Inhibit SP4 Bit 4 = Power-on Inhibit SP5 Bit 5 = Power-on Inhibit SP6 Bit 6 - 15 = Don't care
			The reset delay feature functions as follows. After power on, the register 4102 is initially cleared to zero. As each set-point is examined, the appropriate bit of register 4102 is set only if the set-point is in-active. A set-point which has the reset delay feature selected, can only activate the relay if the appropriate power-on inhibit bit is set. This means that the after reset, the setpoint must first enter the in-active state before it can be activated. This register can be read or written to.
4108	U_16	DIGITAL_IO	16 bit register contains flags for the digital inputs at the rear of the meter. Register 4108 is a 16 bit register which shows the current status of the I/O pins on the back panel of the meter. The bit function for each bit is shown below. Bit 0 = Hold pin (1 = active state), 0 = inactive state) Bit 1 = Lock pin Bit 2 = Capture pin Bit 3 = D1 read only pin Bit 4 = D2 read only pin Bit 5 = D3 read only pin Bit 6 = COUNT2_INPUT read only pin Bit 7 = COUNT2_DIRECTION read only pin Bit 8-15 = Reserved for future expansion When register 4108 is read, the status of all of the pins is sampled directly from the input pin. If register 4108 is written to, the values specified are also written directly to the corresponding pins. NOTE: Because of the port structure of the 8051, a 0 written to a digital pin will configure

it as an input with a weak pull-up. A 1 written to a pin will configure the pin as an output only, which is driven low. Care must be taken when writing to register 4108 to ensure that a "0" is written to each bit that is required to be an input. Only Bits

0 - 2 are read/write registers. All other bits are read only pins.

Also note that state of each bit in reg #4108 is not the same as the actual voltage on the pin at the rear of the meter. This is because the inputs are high in their inactive state and are pulled low when active.

Reg.	Туре	Register Name	Register Description
4108	B_0_R	HOLD_PIN	flag shows the current status of the hold pin at the rear of the meter (On=hold pin connected to common).
4108	B_1_R	LOCK_PIN	flag shows the current status of the lock pin at the rear of the meter (On=lock pin connected to common).
4108	B_2_R	CAPTURE_PIN	flag shows the current status of the capture pin at the rear of the meter (On=capture pin connected to common).
4108	B_3_R	D1	read only flag shows the current status of the D1 pin at the rear of the meter
4108	B_4_R	D2	(On=D1 pin connected to common). read only flag shows the current status of the D2 pin at the rear of the meter
4108	B_5_R	D3	(On=D2 pin connected to common). read only flag shows the current status of the D3 pin at the rear of the meter
4108	B_6_R	COUNT2_INPUT	(On=D3 pin connected to common). read only flag shows the current status of the Ch2 count input pin on selected
4108	B_7_R	COUNT2_DIRECTION	input modules. read only flag shows the current status of the Ch2 count direction pin on selected
4108	B_8_R	MUX0	read only flag shows status of MUX0 input pin on selected input modules (single
4108	B_9_R	MUX1	Ch mode only). read only flag shows status of MUX1 input pin on selected input modules (single Ch mode only).
4109	U_16	STATE	16 bit register. Used to control the state number of the macro (cleared to 0 when returning to operational display).
4110	U_16	ANNUNCIATORS	16 bit register contains status & control flags for the annunciator LED's.
4110	B_0	LED6	Register 4110 is a 16 bit register which allows the user to take remote control of
4110	B_1	LED5	the LED annunciators on the front panel. The bit functions are shown below.
4110	B_2	LED4	Remote LED
4110	B_3	LED3	Bit 0 = SP LED 6 (0 = off, 1 = on)
4110	B_4	LED2	Bit 1 = SP LED 5 (0 = off, 1 = on)
4110	B_5	LED1	Bit 2 = SP LED 4 (0 = off, 1 = on)
			Bit 3 = SP LED 3 (0 = off, 1 = on)
4110	B_8	REMOTE_LED6	Bit 4 = SP LED 2 (0 = off, 1 = on)
4110	B_9	REMOTE_LED5	Bit 5 = SP LED 1 (0 = off, 1 = on)
4110	B_10	REMOTE_LED4	Bit 6 = Don't care
4110	B_11	REMOTE_LED3	Bit 7 = Don't care
4110	B_12	REMOTE_LED2	Bit 8 = Remote LED mode for SP LED 6 (0 = normal mode, 1 = remote mode)
4110	B_13	REMOTE_LED1	Bit 9 = Remote LED mode for SP LED 5 (0 = normal mode, 1 = remote mode) Bit 10 = Remote LED mode for SP LED 4 (0 = normal mode, 1 = remote mode) Bit 11 = Remote LED mode for SP LED 3 (0 = normal mode, 1 = remote mode) Bit 12 = Remote LED mode for SP LED 2 (0 = normal mode, 1 = remote mode) Bit 13 = Remote LED mode for SP LED 1 (0 = normal mode, 1 = remote mode) Bit 14 - 15 = Reserved for future use (these bits should be written as 0) A read of this register will always show the current LED status of all LED's whether in normal or remote mode.
4111	U_16	SHORT_TIMER1	16 bit timer counts up every 0.1 seconds (109 minutes). It can be set/reset by
4112	U_16	SHORT_TIMER2	macro. 16 bit timer counts up every 0.1 seconds (109 minutes). It can be set/reset by
4113	U_16	SHORT_TIMER3	macro. 16 bit timer counts up every 0.1 seconds (109 minutes). It can be set/reset by
4114	U_16	SHORT_TIMER4	macro. 16 bit timer counts up every 0.1 seconds (109 minutes). It can be set/reset by macro.
4117	U_16	CH1_PRESCALER	16 register sets the prescale value in channel 1 counter mode.
4117	U_16	CH2_PRESCALER	16 register sets the prescale value in channel 2 counter mode.
4121	S_16	CH1_PRESCALER_COUNT	16 bit register give the current prescaler count value for channel 1 in counter mode.
4122	S_16	CH2_PRESCALER_COUNT	16 bit register give the current prescaler count value for channel 2 in counter mode.
4125	U_16	PID1_OUTPUT	16 bit register holds a PID output value from 0-1000 when SP1 is set to PID mode.
4126	U_16	PID2_OUTPUT	16 bit register holds a PID output value from 0-1000 when SP2 is set to PID mode.
4127	U_16	PID3_OUTPUT	16 bit register holds a PID output value from 0-1000 when SP3 is set to PID mode.
4128	U_16	PID4_OUTPUT	16 bit register holds a PID output value from 0-1000 when SP4 is set to PID mode.
4129	U_16	PID5_OUTPUT	16 bit register holds a PID output value from 0-1000 when SP5 is set to PID mode.
4130	U_16	PID6_OUTPUT	16 bit register holds a PID output value from 0-1000 when SP6 is set to PID mode.
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4133	S_16	AUTO_ZERO_RESULT	16 bit register contains the auto zero correction offset for the result.

Reg.	Туре	Register Name	Register Description
4134	S_16	AUTO_ZERO_CH1	16 bit register, auto zero correction offset for channel 1.
4135	S_16	AUTO_ZERO_CH2	16 bit register. auto zero correction offset for channel 2.
4136	S_16	AUTO_ZERO_CH3	16 bit register. auto zero correction offset for channel 3.
4137	S_16	AUTO_ZERO_CH4	16 bit register. auto zero correction offset for channel 4.
4138	S_16	AUTO_ZERO_CH5	16 bit register. auto zero correction offset for channel 5.
4139	S_16	AUTO_ZERO_CH6	16 bit register, auto zero correction offset for channel 6.
4140	S_16	AUTO_ZERO_CH7	16 bit register. auto zero correction offset for channel 7.
4145 4146	S_16 S_16	ANALOG_OUTPUT1 ANALOG_OUTPUT2	16 bit register holds the scaled output data for analogue O/P 1. 16 bit register holds the scaled output data for analogue O/P 2.
4147	S_16	ANALOG_OUTPUT3	16 bit register holds the scaled output data for analogue O/P 3.
4148	S_16	ANALOG_OUTPUT4	16 bit register holds the scaled output data for analogue O/P 4.
4149	S_16	ANALOG_OUTPUT5	16 bit register holds the scaled output data for analogue O/P 5.
4150	S_16	ANALOG_OUTPUT6	16 bit register holds the scaled output data for analogue O/P 6.
4151	S_16	ANALOG_OUTPUT7	16 bit register holds the scaled output data for analogue O/P 7.
4152	S_16	ANALOG_OUTPUT8	16 bit register holds the scaled output data for analogue O/P 8.
4157	S_16	D2A_AOP1_CAL_LOW	Registers 4157 to 4164 are 16 bit registers holding the low end calibration values
to		to	for analog outputs 1 to 8.
4164		D2A_AOP8_CAL_LOW	
4169	S_16	D2A_AOP1_CAL_HIGH	Registers 4169 to 4176 are 16 bit register holding the high end calibration values
to 4176		to D2A_AOP8_CAL_HIGH	for analog outputs 1 to 8.
4170		DZA_AOFO_OAL_IIIGII	
4181	U_16	SP1_HYST	16 bit register holds the hysteresis/passband value for setpoint 1.
4181	U_16	PID1_PROPORTIONAL_BAND	16 bit register sets the proportional band for PID1 from 0% to 999.9%(9999).
4182	11.16	SP2_HYST	16 hit register helds the hystoresis/peopleand value for cotraint 2
4182	U_16 U_16	PID2_PROPORTIONAL_BAND	16 bit register holds the hysteresis/passband value for setpoint 2. 16 bit register sets the proportional band for PID2 from 0% to 999.9%(9999).
7102	0_10	TIDE_THOTOTHORAL_DARD	To bit register sets the proportional band for Fibz from 670 to 333.370(3333).
4183	U_16	SP3_HYST	16 bit register holds the hysteresis/passband value for setpoint 3.
4183	U_16	PID3_PROPORTIONAL_BAND	16 bit register sets the proportional band for PID3 from 0% to 999.9%(9999).
4184	U_16	SP4_HYST	16 bit register holds the hysteresis/passband value for setpoint 4.
4184	U_16	PID4_PROPORTIONAL_BAND	16 bit register sets the proportional band for PID4 from 0% to 999.9%(9999).
4185	U_16	SP5_HYST	16 bit register holds the hysteresis/passband value for setpoint 5.
4185	U_16	PID5_PROPORTIONAL_BAND	16 bit register sets the proportional band for PID5 from 0% to 999.9%(9999).
4100	0_10	I IDO_I NOI ONNONAL_DAND	To bit register deta the proportional band for 1 120 from 670 to 000.070(0000).
4186	U_16	SP6_HYST	16 bit register holds the hysteresis/passband value for setpoint 6.
4186	U_16	PID6_PROPORTIONAL_BAND	16 bit register sets the proportional band for PID6 from 0% to 999.9%(9999).
4197	U_16	SP1_MAKE_DELAY	16 bit register holds the make delay time for setpoint 1(0.1s or 0.001s resolution).
4197	U_16	PID1_INTEGRAL_VALUE	16 bit register sets the integral value for PID1 from 0 to 6553.5(65535).
4400	11.40	CDO MAKE DELAY	10 bit wasiatan balda tha mada dalah tima fan astraint 0/0 ta an 0 00ta madatian)
4198 4198	U_16 U_16	SP2_MAKE_DELAY PID2_INTEGRAL_VALUE	16 bit register holds the make delay time for setpoint 2(0.1s or 0.001s resolution). 16 bit register sets the integral value for PID2 from 0 to 6553.5(65535).
4130	0_10	FID2_INTEGNAL_VALUE	To bit register sets the integral value for Tib2 from 6 to 6555.5(65555).
4199	U_16	SP3_MAKE_DELAY	16 bit register holds the make delay time for setpoint 3(0.1s resolution).
4199	U_16	PID3_INTEGRAL_VALUE	16 bit register sets the integral value for PID3 from 0 to 6553.5(65535).
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4200	U_16	SP4_MAKE_DELAY	16 bit register holds the make delay time for setpoint 4(0.1s resolution).
4200	U_16	PID4_INTEGRAL_VALUE	16 bit register sets the integral value for PID4 from 0 to 6553.5(65535).
4004	11.40	ODE MAKE DELAY	40 kg water halde the make date they be for extend to 50 to 10 to 1
4201	U_16	SP5_MAKE_DELAY	16 bit register holds the make delay time for setpoint 5(0.1s resolution).
4201	U_16	PID5_INTEGRAL_VALUE	16 bit register sets the integral value for PID5 from 0 to 6553.5(65535).
4202	U_16	SP6_MAKE_DELAY	16 bit register holds the make delay time for setpoint 6(0.1s resolution).
4202	U_16	PID6_INTEGRAL_VALUE	16 bit register sets the integral value for PID6 from 0 to 6553.5(65535).
4213	U_16	SP1_BREAK_DELAY	16 bit register holds the break delay time for setpoint 1(0.1s or 0.001s resolution).
4213	U_16	PID1_DERIVATIVE_VALUE	16 bit register sets the derivative value for PID1 from 0 to 999.9(9999).
46.1.	11.46	ODO DDE117 DE1 015	40.19
4214	U_16	SP2_BREAK_DELAY	16 bit register holds the break delay time for setpoint 2(0.1s or 0.001s resolution).
4214	U_16	PID2_DERIVATIVE_VALUE	16 bit register sets the derivative value for PID2 from 0 to 999.9(9999).
4215	U_16	SP3_BREAK_DELAY	16 bit register holds the break delay time for setpoint 3(0.1s resolution).
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Reg.	Type	Register Name	Register Description
4215	U_16	PID3_DERIVATIVE_VALUE	16 bit register sets the derivative value for PID3 from 0 to 999.9(9999).
4216	U_16	SP4_BREAK_DELAY	16 bit register holds the break delay time for setpoint 4(0.1s resolution).
4216	U_16	PID4_DERIVATIVE_VALUE	16 bit register holds the break delay time for Selpoint 4(0.15 resolution).
	00		10 S.K. 109,000. 0010 1.10 00.11 0.10 10.11 1.2 1 1.0111 0 10 00010(0000)
4217	U_16	SP5_BREAK_DELAY	16 bit register holds the break delay time for setpoint 5(0.1s resolution).
4217	U_16	PID5_DERIVATIVE_VALUE	16 bit register sets the derivative value for PID5 from 0 to 999.9(9999).
4218	U_16	SP6_BREAK_DELAY	16 bit register holds the break delay time for setpoint 6(0.1s resolution).
4218	U_16	PID6_DERIVATIVE_VALUE	16 bit register sets the derivative value for PID6 from 0 to 999.9(9999).
			· ,
4229	U_16	SP1_RESET_DESTINATION	Registers 4229 – 4234 are 16 bit registers which specify the destination register that will be modified by each set-point reset function.
to 4234		to SP6_RESET_DESTINATION	will be mounted by each set-point reset function.
4245	U_16	PID1_ANTI_RESET_WINDUP	16 bit register. PID anti reset windup for setpoint 1. % of PB (range 0.1% -
4246	U_16	PID2_ANTI_RESET_WINDUP	100.0%). 16 bit register. PID anti reset windup for setpoint 2. % of PB (range 0.1% -
7270	0_10	TIDZ_ANTI_NEGET_WINDOI	100.0%).
4247	U_16	PID3_ANTI_RESET_WINDUP	16 bit register. PID anti reset windup for setpoint 3. % of PB (range 0.1% -
40.40	11.40	DID 4 ANTI DECET WINDLID	100.0%).
4248	U_16	PID4_ANTI_RESET_WINDUP	16 bit register. PID anti reset windup for setpoint 4. % of PB (range 0.1% - 100.0%).
4249	U_16	PID5_ANTI_RESET_WINDUP	16 bit register. PID anti reset windup for setpoint 5. % of PB (range 0.1% -
			100.0%).
4250	U_16	PID6_ANTI_RESET_WINDUP	16 bit register. PID anti reset windup for setpoint 6. % of PB (range 0.1% -
			100.0%).
4261	U_16	PID1_CYCLE_TIME	16 bit register. PID cycle time for setpoint 1 (range 0-1000.0 seconds).
4262	U_16	PID2_CYCLE_TIME	16 bit register. PID cycle time for setpoint 2 (range 0-1000.0 seconds).
4263	U_16	PID3_CYCLE_TIME	16 bit register. PID cycle time for setpoint 3 (range 0-1000.0 seconds).
4264	U_16	PID4_CYCLE_TIME	16 bit register. PID cycle time for setpoint 4 (range 0-1000.0 seconds).
4265	U_16	PID5_CYCLE_TIME	16 bit register. PID cycle time for setpoint 5 (range 0-1000.0 seconds).
4266	U_16	PID6_CYCLE_TIME	16 bit register. PID cycle time for setpoint 6 (range 0-1000.0 seconds).
4277	U_16	TABLE1_DATE	16 bit register. Date (Year/Week) when linearisation table 1 was last modified(range
			0000 - 9952).
4278	U_16	TABLE2_DATE	16 bit register. Date (Year/Week) when linearisation table 2 was last modified(range
4279	U_16	TABLE3 DATE	0000 - 9952). 16 bit register. Date (Year/Week) when linearisation table 3 was last modified(range
			0000 - 9952).
4280	U_16	TABLE4_DATE	16 bit register. Date (Year/Week) when linearisation table 4 was last modified(range
			0000 - 9952).
4285	U_16	TABLE1 SERIAL NO	16 bit register. Serial number of linearisation table 1 (range 0-65535).
4286	U_16	TABLE2_SERIAL_NO	16 bit register. Serial number of linearisation table 2 (range 0-65535).
4287	U_16	TABLE3_SERIAL_NO	16 bit register. Serial number of linearisation table 3 (range 0-65535).
4288	U_16	TABLE4_SERIAL_NO	16 bit register. Serial number of linearisation table 4 (range 0-65535).
1000	11.40	AVERAGING WINDOW BEGINT	40 bit action A continue to the formal life (access 0.05505 continue)
4293	U_16	AVERAGING_WINDOW_RESULT	16 bit register. Averaging window for result (range 0-65535 counts).
4294	U_16	AVERAGING_WINDOW_CH1	16 bit register. Averaging window for channel 1 (range 0-65535 counts).
4295 4296	U_16 U_16	AVERAGING WINDOW CH3	16 bit register. Averaging window for channel 2 (range 0-65535 counts). 16 bit register. Averaging window for channel 3 (range 0-65535 counts).
4290 4297	U_16	AVERAGING_WINDOW_CH3 AVERAGING_WINDOW_CH4	16 bit register. Averaging window for channel 4 (range 0-65535 counts).
4298	U_16	AVERAGING_WINDOW_CH5	16 bit register. Averaging window for channel 5 (range 0-65535 counts).
4299	U_16	AVERAGING_WINDOW_CH6	16 bit register. Averaging window for channel 6 (range 0-65535 counts).
4300	U_16	AVERAGING_WINDOW_CH7	16 bit register. Averaging window for channel 7 (range 0-65535 counts).
4005	11.46	INDUT DATE:	Decided 4005 to 4040 and 40 to
4305	U_16	INPUT_RATE1	Registers 4305 to 4310 are 16 bit unsigned registers which hold the numeric value for the input rate used during the totalisator calibration procedure.
4306 4307	U_16 U_16	INPUT_RATE2	for the input rate used during the totalisator calibration procedure.
4307 4308	U_16 U_16	INPUT_RATE3 INPUT_RATE4	
4309	U_16	INPUT_RATE5	
4310	U_16	INPUT_RATE6	
1615	0 15	V 510505	
4315	S_16	K_FACTOR1	32 bit register. K factor for totalisator 1.
4316 4317	S_16	K_FACTOR2	32 bit register. K factor for totalisator 2.
4317	S_16 S_16	K_FACTOR3 K_FACTOR4	32 bit register. K factor for totalisator 3. 32 bit register. K factor for totalisator 4.
- 510	0_10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	52 St. 18gistor. It laster for totalisator T.

Reg.	Туре	Register Name	Register Description
4319	S_16	K_FACTOR5	32 bit register. K factor for totalisator 5.
4320	S_16	K_FACTOR6	32 bit register. K factor for totalisator 6.
400E	0.16	CUTOFF4	16 hit variates Cutoff value for totalisates 1 (vance 20760 to 20767)
4325 4326	S_16 S_16	CUTOFF1 CUTOFF2	16 bit register. Cutoff value for totalisator 1 (range -32768 to 32767). 16 bit register. Cutoff value for totalisator 2 (range -32768 to 32767).
4327	S_16	CUTOFF3	16 bit register. Cutoff value for totalisator 2 (range -32768 to 32767).
4328	S_16	CUTOFF4	16 bit register. Cutoff value for totalisator 4 (range -32768 to 32767).
4329	S_16	CUTOFF5	16 bit register. Cutoff value for totalisator 5 (range -32768 to 32767).
4329	S_16	CUTOFF6	16 bit register. Cutoff value for totalisator 5 (range -32768 to 32767).
4000	0_10	3313113	To bit register. Outen value for totalisator o frange ozroo to ozror).
4335	U_16	AZ_APERTURE_BAND_RESULT	16 bit register. Auto zero aperture band for result (range 0-65535 counts).
4336	U_16	AZ_APERTURE_BAND_CH1	16 bit register. Auto zero aperture band for channel 1 (range 0-65535 counts).
4337	U_16	AZ_APERTURE_BAND_CH2	16 bit register. Auto zero aperture band for channel 2 (range 0-65535 counts).
4338	U_16	AZ_APERTURE_BAND_CH3	16 bit register. Auto zero aperture band for channel 3 (range 0-65535 counts).
4339	U_16	AZ_APERTURE_BAND_CH4	16 bit register. Auto zero aperture band for channel 4 (range 0-65535 counts).
4340	U_16	AZ_APERTURE_BAND_CH5	16 bit register. Auto zero aperture band for channel 5 (range 0-65535 counts).
4341	U_16	AZ_APERTURE_BAND_CH6	16 bit register. Auto zero aperture band for channel 6 (range 0-65535 counts).
4342	U_16	AZ_APERTURE_BAND_CH7	16 bit register. Auto zero aperture band for channel 7 (range 0-65535 counts).
4347	U_16	BAR_COLOUR	16 bit register sets the bar graph colour bands between setpoints (for bar graph meters only).
4371	U_16	DATA_SOURCE_DISPLAY1	Registers 4371 – 4373 are 16 bit registers which specify the data source for vari-
4372	U_16	DATA_SOURCE_DISPLAY2	ous displays. The number they contain is the ASCII/Modbus register number for the
4373	U_16	DATA_SOURCE_DISPLAY3	required data source. (Note: Only registers that hold integer values can be used as
			a data source for the display. Floating point and text registers can not be used.)
			more than one display output. The function of registers 4372 & 4373 with different meter types is shown below; 6 x 2 Line LED Display Meter 4371 = Data source for 1st line of display 4372 = Data source for 2nd line of display 8 x 2 Line LCD Display Meter 4371 = Data source for 1st line of display 4372 = Data source for 2nd line of display Bar Graph Meter 4371 = Data source for 1st line of display 4372 = Data source for bar graph. 3 Display Meter 4371 = Data source for display 1.
			4372 = Data source for display 2.
			4373 = Data source for display 3.
4374 4375 4376	U_16 U_16 U_16	DATA_SOURCE_PEAK_VALLEY1 DATA_SOURCE_PEAK_VALLEY2 DATA_SOURCE_PEAK_VALLEY3	Registers 4374 – 4376 are 16 bit registers which specify the data source for the peak and valley displays. The number they contain is the ASCII/Modbus register number for the required data source.
			Note: Only registers that hold integer values can be used as a data source for the display. Floating point and text registers can not be used.
4379 4380 4381 4382	U_16 U_16 U_16 U_16	DATA_SOURCE_ANALOG1 DATA_SOURCE_ANALOG2 DATA_SOURCE_ANALOG3 DATA_SOURCE_ANALOG4	Registers 4379 – 4386 are 16 bit registers which specify the data source for the analog output channels. The number they contain is the ASCII/Modbus register number for the required data source.
4382 4383	U_16 U_16	DATA_SOURCE_ANALOG4 DATA_SOURCE_ANALOG5	Note:
4384	U_16	DATA_SOURCE_ANALOG6	Only registers that hold integer values can be used as a data source for the dis-
4385	U_16	DATA_SOURCE_ANALOG0 DATA_SOURCE_ANALOG7	play. Floating point and text registers can not be used.
4386	U_16	DATA_SOURCE_ANALOG8	
- 500	5_10		

Reg.	Туре	Register Name	Register Description
4391	U_16	DATA_SOURCE_TOTAL1	Registers 4391 - 4396 are 16 bit registers which specify the data source for the
4392	U_16	DATA_SOURCE_TOTAL2	totalizer channels. The number they contain is the ASCII/Modbus register number for
4393	U_16	DATA_SOURCE_TOTAL3	the required data source.
4394	U_16	DATA_SOURCE_TOTAL4	Mata
4395	U_16	DATA_SOURCE_TOTAL5	Note: Only registers that hold integer values can be used as a data source for the dis-
4396	U_16	DATA_SOURCE_TOTAL6	play. Floating point and text registers can not be used.
			* * * * * * * * * * * * * * * * * * * *
4401	U_16	SP1_DATA_SOURCE	16 bit register holds the register number of the data source for setpoint 1.
4402	U_16	SP2_DATA_SOURCE	Registers 4401 – 4406 are 16 bit registers which specify the data source for the setpoints. The number they contain is the ASCII/Modbus register number for the
4403	U_16	SP3_DATA_SOURCE	required data source.
4404 4405	U_16 U_16	SP4_DATA_SOURCE SP5_DATA_SOURCE	Toquitod data coditoo.
4406	U_16	SP6_DATA_SOURCE	Note:
4400	0_10	OI O_DAIA_OOONOL	Only registers that hold integer values can be used as a data source for the dis-
			play. Floating point and text registers can not be used.
4417	U_16	LOG_REG1	Registers 4417 - 4432 are used to specify which registers the data logger logs.
4418	U_16	LOG_REG2	Although registers 4417 and 4418 are 16 bit unsigned registers, their allowable
4419	U_16	LOG_REG3	range is only from 1 to 32767. Register 4417 specifies the first register to be
4420	U_16	LOG_REG4	logged, 4418 the second, 4419 the third and so on. Setting one of these registers
4421	U_16	LOG_REG5	to zero will disable that register from logging any data. Changing registers 4417 – 4432 will potentially change the maximum number of log samples available for the
4422	U_16	LOG_REG6	currently installed memory. The maximum number of log samples available will de-
4423	U_16	LOG_REG7	pend on how many registers are logged, the size of each register, and the memory
4424 4425	U_16 U_16	LOG_REG8 LOG_REG9	size.
4426	U_16	LOG_REG10	D 11 4447 4400 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4427	U_16	LOG_REG11	Registers 4417 - 4432 can be read and written as normal registers. Most of the
4428	U_16	LOG_REG12	registers in the meter can be logged. This includes floating point and text registers. Text registers 16553, 16555 and 16543 should not be logged.
4429	U_16	LOG_REG13	text registers 10000, 10000 and 10040 should not be logged.
4430	U_16	LOG_REG14	
4431	U_16	LOG_REG15	
4432	U_16	LOG_REG16	
4433	U_16_R	MACRO_SIZE	This register is a 16 bit read only register which defines the amount of macro code space available in the meter. Reading this register will produce a number from 1 – 65535 which relates to the number of ASCII/Modbus registers allocated for macro code storage. This may change with model or version number.
4434	U_16	CODE_BLANKING	Register 4434 is a 16 bit register in EEPROM which controls the sequence of code setups that are displayed when the "Prog" and "Up" button are pressed. Each bit in the register controls a specific code display as shown below. If a specific bit is a "0" then the display of the associated function is disabled and that function will be skipped over. If a bit is a "1" the function will be displayed. Bit 0 = not used
			Bit 1 = Brightness Bit 2 = "Lock" display Bit 3 = Cal Bit 4 = Code 1 Bit 5 = Code 2 Bit 6 = Code 3 Bit 7 = Code 4 Bit 8 = Code 5 Bit 9 = Code 6 Bit 10 = Code 7 Bit 11 = Code 8 Bit 12 = Code 9 Bit 13 = Code 10 Bit 14 = not used Bit 15 = not used

The default value will be 65535 (0xFFFF hex) which is all codes enabled.

4435	U_16	SETPOINT_BLANKING	Register 4435 is a 16 bit register in EEPROM which controls the sequence of code setups that are displayed when the "Prog" and "Down" button are pressed. Each
			bit in the register functions in the same manner as above for register 4434 but with the different control functions as shown below.
			Bit 0 = "Lock" display Bit 1 = Setpoint 1
			Bit 2 = Setpoint 2 Bit 3 = Setpoint 3 Bit 4 = Setpoint 4
			Bit 5 = Setpoint 5 Bit 6 = Setpoint 6
			Bit 7 = Setpoint control 1 Bit 8 = Setpoint control 2
			Bit 9 = Setpoint control 3 Bit 10 = Setpoint control 4
			Bit 11 = Setpoint control 5
			Bit 12 = Setpoint control 6 Bit 13 = not used
			Bit 14 = not used Bit 15 = not used
			The default value will be 8191 (0x1FFF hex) which is all codes enabled.
4436	U_16	VIEW_MODE_BLANKING	Register 4436 is a 16 bit register in EEPROM which controls the sequence of displays which can be viewed when the "Up" or "Down" buttons are pressed. Each bit in the register functions in the same manner as for register 4434 above but with the different control functions as shown below.
			Down Button:
			Bit 0 = Setpoint 2 Bit 1 = Setpoint 4
			Bit 2 = Setpoint 6
			Bit 3 = Valley Bit 4 = Total 2
			Bit 5 = Channel 2
			Bit 6 = Channel 4 Bit 7 = Enable view mode macro on Down button
			Up Button:
			Bit 8 = Setpoint 1 Bit 9 = Setpoint 3
			Bit 10 = Setpoint 5
			Bit 11 = Peak Bit 12 = Total 1
			Bit 13 = Channel 1 Bit 14 = Channel 3
			Bit 15 = Enable view mode macro on Up button
			The default value will be 32639 (0x7F7F hex) which is all codes enabled except the view macro.
4437	U_16_R	EEPROM_MEMORY_SIZE	8 bit register shows how much EEPROM memory is fitted to the meter (value in Kbytes).
			This is a 16 bit read only register which shows how much EEPROM memory is
			installed in the meter. The size of the EEPROM memory installed in the meter is tested by the meter when the memory is re-initialised and the result is stored in register 4437. The results can be interpreted as follows:
			Value EEPROM Memory Size
			0 Error – the meter does not recognise a correct EEPROM memory device 128 1 x 24C128 EEPROM installed
			256 1 x 24C256 EEPROM installed
			512 1 x 24C512 EEPROM installed 1024 2 x 24C512 EEPROM installed
			1536 3 x 24C512 EEPROM installed 2048 4 x 24C512 EEPROM installed
			Any value other than those shown above is not a valid EEPROM size and is an error.

Reg.	Туре	Register Name	Register Description
4450	U_16	DATA_SOURCE_RESULT	16 bit register selecting the source register for the result channel (range 0-65535).
4455	U_16	DATA_SOURCE_CH5	16 bit register selecting the source register for the result channel (range 0-65535).
4456	U_16	DATA_SOURCE_CH6	16 bit register selecting the source register for the result channel (range 0-65535).
4457	U_16	DATA_SOURCE_CH7	16 bit register selecting the source register for the result channel (range 0-65535).
4462	U_16	LOG_READ_COUNT	16 bit register which sets the number of log samples to read using register 16555 (range 0-65535 counts). Register 4462 defines the maximum number of log samples that will be output when register 16555 is read. The factory default value for 4462 is 100 samples.
5121	S_16	USER_MEMORY_1	16 bit non volatile memory for user defined data/tables (range -32768 to 32767)
to 6144	S_16	to USER_MEMORY_1024	warning - overlaps 8bit user memory.
	5		Registers 5121 – 6144 are 16 bit signed registers that can be used for non volatile storage of user data or look up tables etc. The data is stored in an EEPROM chip so that data will be retained even after the power to the meter has been disconnected. These registers can be accessed either by the macro or via the serial port.
8193	O_8	CAL	Registers 8193 - 8203 are 8 bit registers used to control the functionality of the
8194	O_8	CODE1	meter. The function of each register is described in the DI50T+ Codes document.
8195	0_8	CODE2	When reading or writing to these registers via the serial port, the data is treated in
8196	0_8	CODE3	octal format so that it is identical to the value shown on the display of the meter when setting the codes up manually. The function selected in the first digit of each
8197	0_8	CODE4	Code register is stored in bits 6&7. The function selected in the second digit of
8198	O_8	CODE5	each Code register is stored in bits 3,4, &5. The function selected in the third digit
8199 8200	O_8 O_8	CODE6 CODE7	of each Code register is stored in bits 0,1, &2.
8201	O_8	CODE8	
8202	O_8	CODE9	For example:
8203	O_8	CODE10	If the manual setup for Code4 shows 241, then reading register 8197 in ASCII mode will result in a value of 241. Converting this octal value to a binary or hex
			equivalent gives 0A1 hex or 10100001 binary.
			Octal 2 4 1
			Binary 10 100 001
			1st digit 2nd digit 3rd digit
8206	U_8	BRIGHTNESS	8 bit register holds the display brightness/contrast setting (range 0-7). This is an 8 bit register used to control the brightness of an LED display meter or

This is an 8 bit register used to control the brightness of an LED display meter or the contrast of some LCD display meters. A number between 0 and 7 can be written to register 8206 to control the brightness.

Reg.	Туре	Register Name	Register Description			
8207 8208 8209	U_8 U_8 U_8	BAUDRATE1 BAUDRATE2 BAUDRATE3	port 1, 2, an Bit 3 is used the parity typ	Registers 8207 - 8209 are 8 bit registers used to store the serial port settings for port 1, 2, and 3 respectively. Bits 0 - 2 are used to hold the baud rate information. Bit 3 is used to select between 7 or 8 data bits and bits 4 & 5 are used to select the parity type. Bits 6 and 7 allow different transmit delay times to be selected. The various options available are shown below:		
			Bits 7,6	= transmit delay (00 = 2mS, 01 = 20mS, 10 = 50mS, 11 = 100mS)		
			Bits 5,4	= parity (00 = no parity, 01 = odd parity, 10 = even parity)		
			Bit 3	= data bits (0 = 8 data bits, 1 = 7 data bits)		
			Bits 2,1,0	= baud rate Port 1: (000 = 1200 baud, 001 = 2400 baud, 010 = 4800 baud, 011 = 9600 baud, 100 = 19200 baud, 101 = 38400 baud, 110 = 57600 baud, 111 = 115200 baud)		
				Port 2: (000 = not available, 001 = not available, 010 = not available, 011		
				9600 baud, 100 = 19200 baud, 101 = 38400 baud, 110 = 57600 baud, 111 = 115200 baud) (if 000 - 010 are selected baud rate of 9600 is used)		
				Port 3: (000 = 1200 baud, 001 = 2400 baud, 010 = 4800 baud, 011 = 9600 baud, 100 = 19200 baud, 101 = not available, 110 = not available, 111 = not available) (if 101 - 111 are selected baud rate of 19200 is used)		
			subsequent of settings which	sters are modified via the serial port, the meter response (and any communications) will be issued at the new modified baud rate/parity th may result in a communications error at the master device. Not all available on all serial ports.		
8211 8212 8213	U_8 U_8 U_8	SERIAL_ADDRESS1 SERIAL_ADDRESS2 SERIAL_ADDRESS3	address can	bit registers which set the serial address for ports 1 - 3. The meter be set from 1 to 255. The meter address should not be set to 0 as is reserved (all meters respond to a request at address zero).		
8215 8216	U_8 U_8	SERIAL_MODE1 SERIAL_MODE2	-	15 - 8217 set up the serial mode of operation for the respective serial vailable modes are as follows;		
8217	U_8	SERIAL_MODE3	2 = Macro m 3 = Printer n 4 = Ethernet 5 = Devicence	RTU slave mode naster mode node mode		
			7 = Modbus Note: Some	master mode of the above modes require special hardware to function and may not on all models.		
8219	U_8_R	SERIAL_PORT_NO	8 bit read or Register 8219 Because the an external of	nly register shows which serial port is being accessed. 9 is an 8 bit register which reports which serial port is currently in use. 380 series meters have multiple serial ports it may be necessary for device to know which one it is currently using. For example, a read of all port 1 will result in a number 1 being returned.		
8220	U_8	VIEW_POINTER	8 bit register pressing up/o	s indicates which value is currently being displayed in view mode (i.e. down).		

Reg.	Туре	Register Name	Register Description	
8222	B_5	NON_VOLATILE_WRITE	When this flag is On, the next register written will be saved in permanent memory	

(flag reset after each write).

Bit 5 of Register 8222 is used by the macro only to enable a write to non volatile memory. Nearly all of the registers in the meter are situated in RAM (Random Access Memory) which looses it data when the meter is turned off. In some cases this is undesirable, so a second copy of the data is stored in non volatile memory, which retains it's data even when the meter is turned off. However, a physical

which retains it's data even when the meter is turned off. However, a physical limitation of this sort of memory is that each memory location can only be written 100,000 times in total. The non volatile write flag is provided so that those registers which have a copy in non volatile memory are can still be written to by the macro each cycle, without exceeding the maximum write limit. If bit 5 is set to a '1' then the next time the macro stores a value into a register it will write to RAM and update any associated non volatile memory locations as well. If bit 5 is set to a '0' then the time the macro stores a value into a register, it will only write to RAM. After each store instruction, the macro engine will automatically clear this flag to '0'.

Note:

The non volatile write flag only functions for macro commands. Any write to a register via the serial port will ALWAYS update the non volatile memory

Reg. Type	Register Na	me
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Register Description

8223 U_8 **EDIT_STATE**

8 bit register. Defines which parameter type is currently being edited. Register 8223 is an 8 bit register which gives the current operational state of meter when it is in any edit mode. The following table shows the different parameters that are being edited in each state.

Edit St	tate Operation	Edit Sta	te Operation
0	Not in edit mode	45	Analog o/p - full scale
1	Brightness	46	K factor for totalisator Edit State
	3		Operation
2	Lock display (up)	47	Cut off for totalisator
3	Cal	48	Prescaler for counter 1
4	Code 1	49	Display format
5	Code 2	50	Display Text character
6	Code 3	51	Inc/dec, Manual loader mode
O	Code 3	31	from Prog button
7	Code 4	52	Bar low
8	Code 5	53	Bar high
9	Code 6	54	Bar nominal
10	Code 7	55	Colour band 1
11	Code 8	56	Colour band 2
12	Code 9	57	Colour band 3
13	Code 10	58	Colour band 4
14	Not used	59	Colour band 5
15		60	Colour band 6
	Edit mode - Macro		Colour band 7
16	Lock display (down)	61	
17	Set-point 1	62	Prescaler for counter 2
18	Set-point 2	63	Calibrate zero in Ph mode
19	Set-point 3	64	Calibrate span in Ph mode
20	Set-point 4	65	Display source
21	Set-point 5		Not used
22	Set-point 6	69	Auto zero capture band
23	Set-point 1 control	70	Auto zero motion band
24	Set-point 2 control	71	Averaging samples
25	Set-point 3 control	72	Averaging window
26	Set-point 4 control	73	Smart input module Setup 1
27	Set-point 5 control	74	Smart input module Setup 2
28	Set-point 6 control	75	Smart input module Setup 3
29-31	Not used	76	Auto zero aperture band
32	Manual cal - offset	77	Display input value for totalisator setup
33	Manual cal - scale	78	Totalisator rate time selection
34	Tbuff in PH mode or Cal TC, RTD	79	Totalisator roll over select
35	Auto cal - Zero	80	Select 7 or 8 data bits for serial port
36	Auto cal - Span	81	Disable code blanking
37	Auto cal - 4 sec delay and calcu-		Diable macro
01	late scale & offset values	OL.	Diable maere
38	Baud rate	83	Serial mode selection
39	Parity	96	Select mode for 32 point lin
40	Transmit delay	97	Select table for 32 point lin
41	Serial address	98	Enter date for 32 point lin
			•
42	Analog o/p - cal low end Analog o/p - cal high end	99	Enter serial no. for 32 point lin
43	Anaiog o/p - cai nigh end	100-163	Edit 32 point input and output values. Even numbers = input values, odd numbers = output values.
11	Analog o/n zoro		-

Reg.	Туре	Register Name	Register Description
8226 8227 8228	U_8 U_8 U_8	STRING_CHARACTER1 STRING_CHARACTER2 STRING_CHARACTER3	The protocol for macro master mode is not set in software. Instead it can be user defined in the macro. Registers 8226 – 8229 in conjunction with registers 8230 - 8233 are used for this purpose. The following table shows which register pairs are used together.
			Register Pair Serial Port 8226/8230 Port 1 8227/8231 Port 2 8228/8232 Port 3 8229/8233 Reserved for future development of Port 4
			The following explanation uses the registers for port 1 but the same logic applies for all ports. Register 8226 is an 8 bit register which has 2 functions, depending on the value of register 8230. If register 8230 is zero, (i.e. string length = zero), then register 8226 functions as an end of string character (EOS) for macro master mode serial comms, allowing the user to define their own terminating character for the received string. If register 8230 has some value other than zero, then register 8226 functions as a start of string character. In this mode the serial port will look for the start character and then input the number of bytes defined in register 8230
8230 8231 8232	U_8 U_8 U_8	STRING_LENGTH1 STRING_LENGTH2 STRING_LENGTH3	Registers 8230 to 8233 are 8 bit registers which set the string length for the receive respective serial port in macro master mode. If these registers are greater than zero, the respective serial port will search for the start character defined in the appropriate start of string register (see 8226 – 8229 above), and then it will input the specified number of bytes.
8234	U_8	RECEIVE_FLAGS1	8 bit register. Serial receive flags. Used in macro master mode.
8234	B_0	RECEIVE_READY1	This flag shows that a new message string has been received on port 1 in macro master mode.
8235	U_8	RECEIVE_FLAGS2	8 bit register. Serial receive flags. Used in macro master mode.
8235	B_0	RECEIVE_READY2	This flag shows that a new message string has been received on port 2 in macro master mode.
8236	U_8	RECEIVE_FLAGS3	8 bit register. Serial receive flags. Used in macro master mode.
8236	B_0	RECEIVE_READY3	This flag shows that a new message string has been received on port 3 in macro master mode.
8238	U_8	SECONDS	8 bit register holds the real time clock seconds count (range 0-59).
8239	U_8	MINUTES	8 bit register holds the real time clock minutes count (range 0-59).
8240 8241	U_8 U_8	HOURS DAYS	8 bit register holds the real time clock hours count (range 0-23). 8 bit register holds the real time clock days of the week (range 1-7).
8242	U_8	DATE	8 bit register holds the real time clock date (range 1-31).
8243	U_8	MONTH	8 bit register holds the real time clock month (range 1-12).
8244	U_8	YEAR	8 bit registers holds the real time clock year (range 0-99)
8245	O_8	SP1_CONTROL	These registers are 8 bit registers used to control the set-point functionality. The
8246	0_8	SP2_CONTROL	function of each register is described in the DI50T+ Codes document. When reading
8247	0_8	SP3_CONTROL	or writing to these registers via the serial port, the data is treated in octal format so that it is identical to the value shown on the display of the meter when setting
8248 8249	O_8 O_8	SP4_CONTROL SP5_CONTROL	these codes up manually. The format of these registers is the same as registers
8250	O_8	SP6_CONTROL	8193 - 8203 described above.
8261	U_8	SP1_TRACKING	Registers 8261 - 8266 are 8 bit registers used for selecting the set-point tracking.
8262	U_8	SP2_TRACKING	The function of each bit is shown below;
8263	U_8	SP3_TRACKING	Set-point tracking
8264 8265	U_8 U_8	SP4_TRACKING SP5_TRACKING	Bits $0 - 2 = \text{Tracking mode.}$
8266	U_8	SP6_TRACKING	(xxxxx000b = tracking disabled) (xxxxx001b = Set-point tracks SP1) (xxxxx010b = Set-point tracks SP2) (xxxxx011b = Set-point tracks SP3) (xxxxx100b = Set-point tracks SP4) (xxxxx101b = Set-point tracks SP5) (xxxxx110b = Set-point tracks SP6)
			Bits 3 - 7 = Reserved for future development

Reg.	Туре	Register Name	Register Description		
8277	U_8	SP1_DELAY_TYPE	8 bit register controls the delay type settings for setpoint 1.		
8278	U_8	SP2_DELAY_TYPE	Registers 8277 to 8282 are 8 bit registers used to control the delay type, display		
8279	U_8	SP3_DELAY_TYPE	flashing and mode of each of the 6 set-points. An explanation of the function of		
8280	U_8	SP4_DELAY_TYPE	each bit is given below:		
8281	U_8	SP5_DELAY_TYPE	Bits 0 - 2 = Delay type		
8282	U_8	SP6_DELAY_TYPE	(xxxxx000b = Off)		
			(xxxxx000b = 01) (xxxxx001b = normal)		
			(xxxxx010b = one shot)		
			(xxxxx011b = pulse)		
			(xxxxx100b = repeat)		
			(xxxxx101b = -ve one shot)		
			(xxxxx110b = -ve pulse)		
			(xxxxx111b = -ve repeat)		
			Bit 3 = Display flash on set-point (0 = no flash, 1 = flash on set-point active).		
			Bit 4,5 = Hysteresis/Deviation/PID mode		
			(xx00xxxb = Off)		
			(xx01xxxxb = Hyst)		
			(xx10xxxxb = Dev)		
			(xx11xxxxb = PID)		
			Pit 6 - Delay recolution (0 - 0.19ee recolution 1 - 1m9ee recolution)		
			Bit 6 = Delay resolution (0 = 0.1Sec resolution, 1 = 1mSec resolution)		
			Bit 7 = Reserved for future development.		
8293	U_8	SP1_TRIGGER	8 bit register. Controls trigger functions of setpoint 1.		
8294	U_8	SP2_TRIGGER	Registers 8293 - 8298 are 8 bit registers used for selecting the set-point trigger		
8295	U_8	SP3_TRIGGER	functions. The function of each bit is shown below;		
8296	U_8	SP4_TRIGGER			
8297	U_8	SP5_TRIGGER	Bits 0 – 2 = Trigger Functions		
8298	U_8	SP6_TRIGGER	(xxxxx000b = All trigger functions disabled)		
			(xxxxx001b = Trigger on make edge) (xxxxx010b = Trigger on break edge)		
			(xxxxx011b = Trigger on both make & break edge)		
			(xxxxx100b = Trigger when energised)		
			Bits 3 & 4 = Reset Mode		
			(xxx00xxxb = Destination register = user defined constant) (xxx01xxxb = Destination register = Input_data - Setpoint_value + Constant)		
			(xxx10xxxb = Destination register = Destination + Constant)		
			(xxx11xxxb = Destination register = Source register)		
			Bit 5 = Reserved for future development		
			Bit $6 = \text{Log}$ on selected edge $(0 = \text{no log}, 1 = \text{log})$.		
			Bit 7 = Print on selected edge (0 = no print, 1 = print).		
8309	U_8	AVERAGING SAMPLES RESULT	8 bit register. Averaging samples for result (range 0-255 samples).		
8310	U_8	AVERAGING_SAMPLES_CH1	8 bit register. Averaging samples for channel 1 (range 0-255 samples).		
8311	U_8	AVERAGING_SAMPLES_CH2	8 bit register. Averaging samples for channel 2 (range 0-255 samples).		
8312	U_8	AVERAGING SAMPLES CH3	8 bit register. Averaging samples for channel 3 (range 0-255 samples).		
8313	U_8	AVERAGING_SAMPLES_CH4	8 bit register. Averaging samples for channel 4 (range 0-255 samples).		
8314	U_8	AVERAGING_SAMPLES_CH5	8 bit register. Averaging samples for channel 5 (range 0-255 samples).		
8315	U_8	AVERAGING_SAMPLES_CH6	8 bit register. Averaging samples for channel 6 (range 0-255 samples).		
8316	U_8	AVERAGING_SAMPLES_CH7	8 bit register. Averaging samples for channel 7 (range 0-255 samples).		
8321	U_8	AZ_CAPTURE_BAND_RESULT	8 bit register. Auto zero capture band for result		
		_	range 0-254 counts, 255=manual zero.		
8322	U_8	AZ_CAPTURE_BAND_CH1	8 bit register. Auto zero capture band for channel 1		
			range 0-254 counts, 255=manual zero.		
8323	U_8	AZ_CAPTURE_BAND_CH2	8 bit register. Auto zero capture band for channel 2		
0004		AZ CARTURE RANG CUO	range 0-254 counts, 255=manual zero.		
8324	U_8	AZ_CAPTURE_BAND_CH3	8 bit register. Auto zero capture band for channel 3		
0205	11 0	AZ CADTUDE PAND CUA	range 0-254 counts, 255=manual zero.		
8325	U_8	AZ_CAPTURE_BAND_CH4	8 bit register. Auto zero capture band for channel 4 range 0-254 counts, 255=manual zero.		
8326	U_8	AZ_CAPTURE_BAND_CH5	8 bit register. Auto zero capture band for channel 5		
5525	5_5	0/11 0/11_D/110_0/10	range 0-254 counts, 255=manual zero.		

Reg.	Туре	Register Name	Register Description
8327	U_8	AZ_CAPTURE_BAND_CH6	8 bit register. Auto zero capture band for channel 6 range 0-254 counts, 255=manual zero.
8328	U_8	AZ_CAPTURE_BAND_CH7	8 bit register. Auto zero capture band for channel 7 range 0-254 counts, 255=manual zero.
8333	U_8	AZ_MOTION_BAND_RESULT	8 bit register. Auto zero motion band for result (range 0-255 counts/second).
8334	U_8	AZ_MOTION_BAND_CH1	8 bit register. Auto zero motion band for channel 1 (range 0-255 counts/second).
8335	U_8	AZ_MOTION_BAND_CH2	8 bit register. Auto zero motion band for channel 2 (range 0-255 counts/second).
8336	U_8	AZ_MOTION_BAND_CH3	8 bit register. Auto zero motion band for channel 3 (range 0-255 counts/second).
8337	U_8	AZ_MOTION_BAND_CH4	8 bit register. Auto zero motion band for channel 4 (range 0-255 counts/second).
8338	U_8	AZ_MOTION_BAND_CHS	8 bit register. Auto zero motion band for channel 5 (range 0-255 counts/second).
8339 8340	U_8 U_8	AZ_MOTION_BAND_CH6 AZ_MOTION_BAND_CH7	8 bit register. Auto zero motion band for channel 6 (range 0-255 counts/second). 8 bit register. Auto zero motion band for channel 7 (range 0-255 counts/second).
8345	U_8	RATE_TOTALIZER1	Registers 8345 - 8350 are 8 bit registers which control the time period for K
8346	U_8	RATE_TOTALIZER2	factor calculation and roll over features for Totalisators 1 - 6 respectively. The format of these registers is shown below.
8347 8348	U_8	RATE_TOTALIZER3	Bits 0 - 3
8349	U_8 U_8	RATE_TOTALIZER4 RATE_TOTALIZER5	xxxx0000 = 1 second period for K factor calculations
8350	U_8	RATE_TOTALIZER6	xxxx0001 = 10 seconds period for K factor calculations
0000	0_0	HATE_TOTALIZENO	xxxx0010 = 1 minute period for K factor calculations
			xxxx0011 = 10 minute period for K factor calculations
			xxxx0100 = 1 hour period for K factor calculations
			xxxx0101 = 10 hours period for K factor calculations xxxx0110 = 1 day period for K factor calculations
			xxxx0111 = 1 week period for K factor calculations
			Bit $4 = \text{Totalisator Roll over } (0 = \text{inactive}, 1 = \text{roll over active})$
			Bit 5-7 = unused at present.
8366	U_8	CURRENT_DISPLAY_FORMAT	8 bit register holds the display format settings of the current display (see display
			format mode in octal).
			Register 8366 is an 8 bit register which shows the display options (rounding, display
			mode, decimal point selection) that are currently active on the display. The function
8367	O_8	DISPLAY_FORMAT_RESULT	of each bit is exactly the same as that for registers 8367 - 8391. 8 bit register controls the display format settings for the result (see display format
0007	0_0	DIOI LAT_I ORIMAT_REGOET	mode in data sheet).
8368	O_8	DISPLAY_FORMAT_CH1	8 bit register controls the display format settings for channel 1.
8369	0_8	DISPLAY_FORMAT_CH2	8 bit register controls the display format settings for channel 2.
8370	O_8	DISPLAY_FORMAT_CH3	8 bit register controls the display format settings for channel 3.
8371	O_8	DISPLAY_FORMAT_CH4	8 bit register controls the display format settings for channel 4.
8372	O_8	DISPLAY_FORMAT_CH5	8 bit register controls the display format settings for channel 5.
8373	O_8	DISPLAY_FORMAT_CH6	8 bit register controls the display format settings for channel 6.
8374	O_8	DISPLAY_FORMAT_CH7	8 bit register controls the display format settings for channel 7.
8375	O_8	DISPLAY_FORMAT_DEFAULT	8 bit register holds the default display format settings (see display format mode in
			data sheet).
8376	O_8	DISPLAY_FORMAT_TOTAL1	8 bit register controls the display format settings for totalisator 1 (see display format
0077	0.0	DICDI AV FORMAT TOTALO	mode in data sheet).
8377	0_8	DISPLAY_FORMAT_TOTAL2	8 bit register controls the display format settings for totalisator 2.
8378 8379	O_8 O_8	DISPLAY_FORMAT_TOTAL3 DISPLAY_FORMAT_TOTAL4	8 bit register controls the display format settings for totalisator 3. 8 bit register controls the display format settings for totalisator 4.
8380	O_8	DISPLAY_FORMAT_TOTAL5	8 bit register controls the display format settings for totalisator 4.
8381	O_8	DISPLAY_FORMAT_TOTAL6	8 bit register controls the display format settings for totalisator 6.
8382	0_8	DISPLAY_FORMAT_AUX1	8 bit register controls the display format settings for auxiliary 1.
8383	0_8	DISPLAY_FORMAT_AUX2	8 bit register controls the display format settings for auxiliary 2.
8384	0_8	DISPLAY_FORMAT_AUX3	8 bit register controls the display format settings for auxiliary 3.
8385	O_8	DISPLAY_FORMAT_AUX4	8 bit register controls the display format settings for auxiliary 4.
8386 8387	O_8	DISPLAY_FORMAT_AUX5	8 bit register controls the display format settings for auxiliary 5. 8 bit register controls the display format settings for auxiliary 6.
8388	O_8 O_8	DISPLAY_FORMAT_AUX6 DISPLAY_FORMAT_AUX7	8 bit register controls the display format settings for auxiliary 6.
8389	O_8	DISPLAY_FORMAT_AUX8	8 bit register controls the display format settings for auxiliary 8.
8390	O_8	DISPLAY_FORMAT_AUX9	8 bit register controls the display format settings for auxiliary 9.
8391	O_8	DISPLAY_FORMAT_AUX10	8 bit register controls the display format settings for auxiliary 10.
			The state of the s

Reg.	Туре	Register Name	Register Description
8392	U_8	CURRENT_ALPHA_CHARACTER	8 bit register holds the ASCII value for the last digit text character (0= no charac-
			ter). Register 8392 is an 8 bit register, which shows the Alpha-numeric character that is currently active on the display. The value read from 8392 is the ASCII code for the character. An ASCII null (0) indicates that no Alpha-numeric character is displayed.
8393	U_8	TEXT_CHARACTER_RESULT	8 bit register holds the ASCII value for the last digit text character for the result (0= no character). Registers 8392 - 8417 hold an ASCII character that determines which alpha-numeric character is inserted in the Least Significant Digit (LSD) for each of the different data displays. To enable the display of an ASCII character in the LSD, just write the appropriate ASCII code (shown in the tables above) to one of these registers. To return to a normal display (with no ASCII character), write an ASCII null (0) to the register.
8394	U_8	TEXT_CHARACTER_CH1	Registers 8394 to 8400 are 8 bit register holding the ASCII values for the last digit
8395	U_8	TEXT_CHARACTER_CH2	text character for channels 1 to 7
8396	U_8	TEXT_CHARACTER_CH3	(0= no character).
8397	U_8	TEXT_CHARACTER_CH4	
8398	U_8	TEXT_CHARACTER_CH5	
8399	U_8	TEXT_CHARACTER_CH6	
8400	U_8	TEXT_CHARACTER_CH7	
8401	U_8	TEXT_CHARACTER_DEFAULT	8 bit register holds the ASCII value for the default last digit text character (0= no character).
8402	U_8	TEXT_CHARACTER_TOTAL1	Registers 8401 to 8407 are 8 bit registers holding the ASCII values for the last digit
8403	U_8	TEXT_CHARACTER_TOTAL2	text character for totalisators 1 to 6
8404	U_8	TEXT_CHARACTER_TOTAL3	(0= no character).
8405	U_8	TEXT_CHARACTER_TOTAL4	
8406	U 8	TEXT_CHARACTER_TOTAL5	
8407	U_8	TEXT_CHARACTER_TOTAL6	
8408	U_8	TEXT_CHARACTER_AUX1	Registers 8408 to 8417 are 8 bit registers holding the ASCII valuea for the last digit
8409	U_8	TEXT_CHARACTER_AUX2	text character for auxiliaris 1 to 10
8410	U_8	TEXT_CHARACTER_AUX3	(0= no character).
8411	U_8	TEXT_CHARACTER_AUX4	
8412	U_8	TEXT_CHARACTER_AUX5	
8413	U_8	TEXT_CHARACTER_AUX6	
8414	U_8	TEXT_CHARACTER_AUX7	
8415	U_8	TEXT_CHARACTER_AUX8	
8416	U_8	TEXT_CHARACTER_AUX9	
8417	U_8	TEXT_CHARACTER_AUX10	
8422	U_8_R	SMART_ID	8 bit read only register. Defines the type of smart input module currently in use.
8423	O_8	SMART_SETUP1	8 bit register. Setup 1 data for smart input module.
8424	O_8	SMART_SETUP2	8 bit register. Setup 2 data for smart input module.
8425	O_8	SMART_SETUP3	8 bit register. Setup 3 data for smart input module.

Reg.	Туре	Register Name	Regist	er Description
8430	U_8_R	IO_TYPE	meter. Register	ad only register shows type of I/O expansion module currently fitted in 8430 is an 8 bit unsigned register that shows which I/O expansion module ected to the meter at switch on. This will contain one of the following val-
			Value	Function
			0	No I/O expansion module fitted
			1	4 set-points for bar graph output
			2	6 set-points, 10 digital outputs (DO_1 - DO_10), 6 digital inputs (DI_1 - DI_6)
			4	16 digital outputs (DO_1 - DO_16)
			8	16 digital inputs (DI_1 - DI_16)
			16	6 set-points, 6 digital outputs (DO_1 - DO_6), 10 digital inputs (DI_1 - DI_10)
			32	Not used
			64	16 digital outputs (DO_17 - DO_32)
			128	Multi I/O module
			detected retain it' bus. It we the bus. ing a va	ister is updated by the meter at power up, or if a different module type is d. If the I/O expansion module is removed after power up, this register will soriginal value and keep trying to locate the I/O module on the expansion will only change to a new value if another I/O module type is located on Although this is intended as a read only register, it can be written to. Writalue of zero to this register will disable the I/O expansion module. Writing the other than zero will force the meter to search the bus for a connected lule.
8432	U_8	DATALOG_MEM_SIZE		8432 is an 8 bit unsigned register which shows if the extended data logger is fitted to the meter and how much memory is installed in Mbytes (0=no ger).
8433	U_8_R	SMART_VERSION	Register version	signed read only reg shows version number of smart input module. 8433 is an 8 bit read only unsigned register which shows the software number of a smart input module connected to the meter. The meter must least one input channel set to smart input mode before this register will be .
8434	U_8_R	CPU_LOADING	This reg cessing that the functions ma	signed read only reg shows percentage CPU loading. ister is an 8 bit read only unsigned register which shows the current pro- load on the CPU in the meter from 1 – 100%. A value over 90% indicates meter is running out of processing time to complete all of the required s within the selected update time. As a result input samples or output func- ay be skipped and software timers or totalisators may become inaccurate. ution is to set to 'Off' all unused functions and setpoints, reduce the size of cros which are currently running and lastly to select an update rate of 0.1
8436	U_8	BAR_ZERO	8 bit req	gister controls the bar zero position on the bar (range 0-100).
8436 8436 8436 8436 8436 8436 8436	U_8 B_0 B_1 B_2 B_3 B_4 B_5 B_7	LIGHT_BAR LIGHT_BAR1 LIGHT_BAR2 LIGHT_BAR3 LIGHT_BAR4 LIGHT_BAR5 LIGHT_BAR6 LIGHT_REMOTE	flag sho flag sho flag sho flag sho flag sho flag sho	gister shows/controls the status of the light bars (light bar meters only). ws/controls the status of light bar 1 (light bar meters only). ws/controls the status of light bar 2 (light bar meters only). ws/controls the status of light bar 3 (light bar meters only). ws/controls the status of light bar 4 (light bar meters only). ws/controls the status of light bar 5 (light bar meters only). ws/controls the status of light bar 6 (light bar meters only). remote or meter control of the light bars (On=remote, light bar meters only).

Reg.	Type	Register Name	Register Description
8443	U_8_R	LOG_SAMPLE_TRIGGER	Read only register. Trigger source of current log sample. Registers 8443 – 8449 are read only registers used to access data from a log sample. A read of one of these registers, will read the appropriate data from the log sample which is addressed by the current value of the log read pointer (reg #491). A read of one of these registers will not modify the log read or the log write pointer. The user must setup up the log read pointer to the required sample number before accessing registers 8443 – 8449.
			In each case, the output will be a numeric value only. These registers can be read in ASCII or Modbus modes, and can also be read from the macro. (For a text output, the registers 16553 & 16555 should be used in ASCII or print mode).
			The information in registers $8443-8449$ are logged in every sample, regardless of the settings in Code 8.
			An explanation of each registers function is shown below.
			Register 8443 - Trigger Type for sample This register gives an 8 bit numeric value which defines the trigger point for the sample.
			0 = Triggered by reset 1 = Triggered by set-point 1
			2 = Triggered by set-point 2
			3 = Triggered by set-point 3 4 = Triggered by set-point 4
			5 = Triggered by set-point 5
			6 = Triggered by set-point 6
			7 - 16 = Reserved for future development. 17 = Triggered by Program button.
			18 = Triggered by F1 button.
			19 = Triggered by F2 button.
			20 = Triggered by Hold pin. 21 = Triggered by Lock pin.
			22 - 23 = Reserved for future development.
			24 = Triggered by a write to register 16553 (either via the serial port or macro).25 = Trigger by a text string write to 16553 from the macro.
8444	U_8_R	LOG_SAMPLE_DATE	Read only register. Returns 8 bit value for date of current log sample (range 1-31 days).
8445	U_8_R	LOG_SAMPLE_MONTH	Read only register. Returns 8 bit value for month of current log sample (range 1-12 months).
8446	U_8_R	LOG_SAMPLE_YEAR	Read only register. Returns 8 bit value for year of current log sample (range 00-99 years).
8447	U_8_R	LOG_SAMPLE_HOUR	Read only register. Returns 8 bit value for hours in current log sample (range 0-23 hours).
8448	U_8_R	LOG_SAMPLE_MINUTE	Read only register. Returns 8 bit value for minutes in current log sample (range 0-59 minutes).
8449	U_8_R	LOG_SAMPLE_SECOND	Read only register. Returns 8 bit value for seconds in current log sample (range 0-59 seconds).
8454	U_8	RECEIVE_COUNT1	Registers 8454-8456 are 8 bit registers which show the received message length
8455 8456	U_8 U_8	RECEIVE_COUNT2 RECEIVE_COUNT3	(i.e. how many bytes have been received by the serial port in a message) for ports 1 - 3 respectively. Although these registers can be read in all serial modes, their
0430	0_0	NEOLIVE_OCCUPY	main purpose is for use in macro master mode under macro control of the serial ports.
8458	U_8	SERIAL_POINTER1	8 bit pointer used for string compare commands with serial port 1.
8459	U_8	SERIAL_POINTER2	8 bit pointer used for string compare commands with serial port 2.
8460	U_8	SERIAL_POINTER3	8 bit pointer used for string compare commands with serial port 3.
8462	U_8	POLL_TIME	8 bit register which sets the polling time for the Modbus master macro (1 count = 0.01 seconds).
8463	U_8	RESPONSE_TIME	8 bit register which sets the response timeout for the Modbus master macro (1count=0.1S).

1 Numerical Listing

Reg.	Туре	Register Name	Register Description
16403	L_8_T	CHANNEL6_TEXT	Text display for Channel 6
16405	L_8_T	CHANNEL7_TEXT	Text display for Channel 7
16421	L_8_T	TOTAL1_TEXT	Text display for Total 1
16423	L_8_T	TOTAL2_TEXT	Text display for Total 2
16425	L_8_T	TOTAL3_TEXT	Text display for Total 3
16427	L_8_T	TOTAL4_TEXT	Text display for Total 4
16429	L_8_T	TOTAL5_TEXT	Text display for Total 5
16431	L_8_T	TOTAL6_TEXT	Text display for Total 6
16441	L_8_T	PEAK1_TEXT	Text display for Peak 1
16443	L_8_T	VALLEY1_TEXT	Text display for Valley 1
16445	L_8_T	PEAK2_TEXT	Text display for Peak 2
16447	L_8_T	VALLEY2_TEXT	Text display for Valley 2
16449	L_8_T	PEAK3_TEXT	Text display for Peak 3
16451	L_8_T	VALLEY3_TEXT	Text display for Valley 3
16463	L_8_T	AUX1_TEXT	Text display for Auxiliary 1
16465	L_8_T	AUX2_TEXT	Text display for Auxiliary 2
16467	L_8_T	AUX3_TEXT	Text display for Auxiliary 3
16469	L_8_T	AUX4_TEXT	Text display for Auxiliary 4
16471	L_8_T	AUX5_TEXT	Text display for Auxiliary 5
16473	L_8_T	AUX6_TEXT	Text display for Auxiliary 6
16475	L_8_T	AUX7_TEXT	Text display for Auxiliary 7
16477	L_8_T	AUX8_TEXT	Text display for Auxiliary 8
16479	L_8_T	AUX9_TEXT	Text display for Auxiliary 9
16481	L_8_T	AUX10_TEXT	Text display for Auxiliary 10
16483 16485	L_8_T	AUX11_TEXT AUX12_TEXT	Text display for Auxiliary 11
16487	L_8_T L_8_T	AUX13_TEXT	Text display for Auxiliary 12 Text display for Auxiliary 13
16489	L_8_T	AUX14_TEXT	Text display for Auxiliary 13 Text display for Auxiliary 14
16491	L_8_T	AUX15_TEXT	Text display for Auxiliary 15
16493	L_8_T	AUX16_TEXT	Text display for Auxiliary 16 Text display for Auxiliary 16
16495	L_8_T	SETPOINT1_TEXT	Text display for Setpoint 1
16497	L_8_T	SETPOINT2_TEXT	Text display for Setpoint 2
16499	L_8_T	SETPOINT3_TEXT	Text display for Setpoint 3
16501	L_8_T	SETPOINT4_TEXT	Text display for Setpoint 4
16503	L_8_T	SETPOINT5_TEXT	Text display for Setpoint 5
16505	L_8_T	SETPOINT6_TEXT	Text display for Setpoint 6
16539	L_8_T	OVER_TEXT	Text display for over-range
16541	L_8_T	UNDER_TEXT	Text display for under-range

Reg.	Туре	Register Name	Register Description
16543	L_62_T	PRINT_STRING	Print String The register 16543 allows the user to specify the text and registers that will be printed out when a print command is issued in the print mode (i.e. Serial mode = 3).
			16543 = Text display and data selection for print out (63 ascii characters long)
			Register 16543 can be read in the normal manner (i.e. SR16543\$). The meter will respond by printing the complete 63 bytes of the stored string. The following example shows a typical read of register 16543;
			SR16543\$Channel 1 =~9 Channel 2 =~11 Channel 3 =~13 Channel 4 =~15 \$
			Register 16543 can be written as follows:
			SW16543 Rate = \sim 9(carriage return & line feed) Total = \sim 37\$
			Any alpha numeric ASCII character can be used within the following restrictions: 1) \$ and * are reserved for the terminating character at the end of the string and can not be used as part of the text string.
			2) The total string length must be $<=$ 63 bytes long. This includes spaces, tabs, carriage returns, line feeds and terminating character. (This does not include the separator space between the register address (16543) and the start of the string).
			3) Any number following a ~ will be interpreted as a register address. During the printout, the registers current value will be printed out in this position. 4) The ASCII character \ is treated as a special character in the print string. When a \ is encountered, a * is printed in it's place. (* is reservered as a terminating character and normally cannot appear anywhere in the string). This allows the print output of one meter to be connected to another meter which is operating in ASCII mode.
			Note: A new line is usually represented by a carriage return and a line feed, so 2 bytes should be added for each new line in length calculations.
16553	C_124_T	SINGLE_LOG	This register reads or write a single data log sample if data logging is enabled. Register 16553 is used to read the next sample of log data. It does this by comparing the log read pointer (reg 491) with the log write pointer (reg 489). If they are equal then there has been no new samples logged since the last read and the message "No New Log Data" is sent as a response. If they are not equal, the log read pointer (reg 491) is incremented to point to the new sample, and the new log data is transmitted. Registers 489 & 491 can be used to control the data logger. To reset the data logger, both 489 & 491 should be set to 0 (or any other value in the allowable range of memory).
			A write to register 16553 will cause a new log sample to be taken. The value written to the register will be ignored and registers 4417 to 4432 will be logged as normal. This allows a log sample to be taken on demand via the serial port or from the control of the macro. Data logging must be enabled in Code 8 for this feature to function.
			Note: Register 16553 can only be read via the serial port in ASCII mode. To read log data in other serial modes or from the macro, see registers 493 – 523 and registers 8443 – 8449.
16565	L_8_T	METER_TYPE	Meter Type String.
16567 to 16693	L_30_T	USER_TEXT1 to USER_TEXT64	Non volatile 30 character text string registers for user defined text storage.
16897 16899 16901 16903	L_30_T L_30_T L_30_T L_30_T	TEXT_VARIABLE1 TEXT_VARIABLE2 TEXT_VARIABLE3 TEXT_VARIABLE4	30 character text string variable in RAM.

Reg.	Туре	Register Name	Register Description
16905	L_30_T	TEXT_VARIABLE5	30 character text string variable in RAM.
16907	L_30_T	TEXT_VARIABLE6	30 character text string variable in RAM.
16909	L_30_T	TEXT_VARIABLE7	30 character text string variable in RAM.
16911	L_30_T	TEXT_VARIABLE8	30 character text string variable in RAM.

Notes:

Function	Register Name	Туре	Reg.
Analog Output 1	ANALOG_OUTPUT1	S_16	4145
	D2A_AOP1_CAL_HIGH	S_16	4169
	D2A_AOP1_CAL_LOW	S_16	4157
	D2A_AOP1_FULL_SCALE	S_32	405
	D2A_AOP1_ZERO	S_32	381
	DATA_SOURCE_ANALOG1	U_16	4379
Analog Output 2	ANALOG_OUTPUT2	S_16	4146
Andrey Garpat 2	D2A_AOP2_CAL_HIGH	S_16	4170
	D2A_AOP2_CAL_LOW	S_16	4158
	D2A_AOP2_FULL_SCALE	S_32	407
	D2A_AOP2_ZERO	S_32	383
	DATA_SOURCE_ANALOG2	U_16	
	DAIA_SOUNCE_ANALOG2	0_16	4380
Analog Output 3	ANALOG_OUTPUT3	S_16	4147
	D2A_AOP3_CAL_HIGH	S_16	4171
	D2A_AOP3_CAL_LOW	S_16	4159
	D2A_AOP3_FULL_SCALE	S_32	409
	D2A_AOP3_ZERO	S_32	385
	DATA_SOURCE_ANALOG3	U_16	4381
Analog Output 4	ANALOG_OUTPUT4	S_16	4148
	D2A_AOP4_CAL_HIGH	S_16	4172
	D2A_AOP4_CAL_LOW	S_16	4160
	D2A_AOP4_FULL_SCALE	S_32	411
	D2A_AOP4_ZERO	S_32	387
	DATA_SOURCE_ANALOG4	U_16	4382
Analog Output 5	ANALOG_OUTPUT5	S_16	4149
Analog Output o	D2A_AOP5_CAL_HIGH	S_16	4173
	D2A_AOP5_CAL_LOW	S_16	4161
	D2A_AOP5_FULL_SCALE	S_32	413
	D2A_AOP5_ZERO	S_32	389
	DATA_SOURCE_ANALOG5	U_16	4383
Analog Output 6	ANALOG_OUTPUT6	S_16	4150
	D2A_AOP6_CAL_HIGH	S_16	4174
	D2A_AOP6_CAL_LOW	S_16	4162
	D2A_AOP6_FULL_SCALE	S_32	415
	D2A_AOP6_ZERO	S_32	391
	DATA_SOURCE_ANALOG6	U_16	4384
Analog Output 7	ANALOG_OUTPUT7	S_16	4151
	D2A_AOP7_CAL_HIGH	S_16	4175
	D2A_AOP7_CAL_LOW	S_16	4163
	D2A_AOP7_FULL_SCALE	S_32	417
	D2A_AOP7_ZERO	S_32	393
	DATA_SOURCE_ANALOG7	U_16	4385
Analog Out+ 0	ANALOG OLITPLITO	0.40	4150
Analog Output 8	ANALOG_OUTPUT8	S_16	4152
	D2A_AOP8_CAL_HIGH	S_16	4176
	D2A_AOP8_CAL_LOW	S_16	4164

Function	Register Name	Туре	Reg.
	D2A_AOP8_FULL_SCALE	S_32	419
	D2A_AOP8_ZERO	S_32	395
	DATA_SOURCE_ANALOG8	U_16	4386
Channel 1	CH1	S_32	9
	CH1_PROCESSED	S_32	259
	CH1_RAW	S_32	283
	CH1_SCALED	S_32	307
Channel 1 Setup	AUTO_ZERO_CH1	S_16	4134
	AVERAGING_SAMPLES_CH1	U_8	8310
	AVERAGING_WINDOW_CH1	U_16	4294
	AZ_APERTURE_BAND_CH1	U_16	4336
	AZ_CAPTURE_BAND_CH1	U_8	8322
	AZ_MOTION_BAND_CH1	U_8	8334
	CH1_PRESCALER	U_16	4117
	CH1_PRESCALER_COUNT	S_16	4121
	CHANNEL1_TEXT	L_8_T	16393
	DISPLAY_FORMAT_CH1	O_8	8368
	OFFSET_CH1	S_32	359
	SCALE_FACTOR_CH1	F_32	1099
	TEXT_CHARACTER_CH1	U_8	8394
Channel 2	CH2	S_32	11
	CH2_PROCESSED	S_32	261
	CH2_RAW	S_32	285
	CH2_SCALED	S_32	309
Channel 2 Setup	AUTO_ZERO_CH2	S_16	4135
	AVERAGING_SAMPLES_CH2	U_8	8311
	AVERAGING_WINDOW_CH2	U_16	4295
	AZ_APERTURE_BAND_CH2	U_16	4337
	AZ_CAPTURE_BAND_CH2	U_8	8323
	AZ_MOTION_BAND_CH2	U_8	8335
	CH2_PRESCALER	U_16	4118
	CH2_PRESCALER_COUNT	S_16	4122
	CHANNEL2_TEXT	L_8_T	16395
	DISPLAY_FORMAT_CH2	O_8	8369
	OFFSET_CH2	S_32	361
	SCALE_FACTOR_CH2	F_32	1101
	TEXT_CHARACTER_CH2	U_8	8395
Channel 3	CH3	S_32	13
	CH3_PROCESSED	S_32	263
	CH3_RAW	S_32	287
	CH3_SCALED	S_32	311
Channel 3 Setup	AUTO_ZERO_CH3	S_16	4136
	AVERAGING_SAMPLES_CH3	U_8	8312
	AVERAGING_WINDOW_CH3	U_16	4296
	AZ_APERTURE_BAND_CH3	U_16	4338

Function	Register Name	Туре	Reg.
	AZ_CAPTURE_BAND_CH3	U_8	8324
	AZ_MOTION_BAND_CH3	U_8	8336
	CHANNEL3_TEXT	L_8_T	16397
	DISPLAY_FORMAT_CH3	O_8	8370
	OFFSET_CH3	S_32	363
	SCALE_FACTOR_CH3	F_32	1103
	TEXT_CHARACTER_CH3	U_8	8396
Channel 4	CH4	S_32	15
	CH4_PROCESSED	S_32	265
	CH4_RAW	S_32	289
	CH4_SCALED	S_32	313
Channel 4 Setup	AUTO_ZERO_CH4	S_16	4137
	AVERAGING_SAMPLES_CH4	U_8	8313
	AVERAGING_WINDOW_CH4	U_16	4297
	AZ_APERTURE_BAND_CH4	U_16	4339
	AZ_CAPTURE_BAND_CH4	U_8	8325
	AZ_MOTION_BAND_CH4	U_8	8337
	CHANNEL4_TEXT	L_8_T	16399
	DISPLAY_FORMAT_CH4	O_8	8371
	OFFSET_CH4	S_32	365
	SCALE_FACTOR_CH4	F_32	1105
	TEXT_CHARACTER_CH4	U_8	8397
Channel 5	CH5	S_32	17
	CH5_PROCESSED	S_32	267
	CH5_RAW	S_32	291
	CH5_SCALED	S_32	315
Channel 5 Setup	AUTO_ZERO_CH5	S_16	4138
	AVERAGING_SAMPLES_CH5	U_8	8314
	AVERAGING_WINDOW_CH5	U_16	4298
	AZ_APERTURE_BAND_CH5	U_16	4340
	AZ_CAPTURE_BAND_CH5	U_8	8326
	AZ_MOTION_BAND_CH5	U_8	8338
	CHANNEL5_TEXT	L_8_T	16401
	DATA_SOURCE_CH5	U_16	4455
	DISPLAY_FORMAT_CH5	O_8	8372
	OFFSET_CH5	S_32	367
	SCALE_FACTOR_CH5	F_32	1107
	TEXT_CHARACTER_CH5	U_8	8398
Channel 6	CH6	S_32	19
	CH6_PROCESSED	S_32	269
	CH6_RAW	S_32	293
	CH6_SCALED	S_32	317
Channel 6 Setup	AUTO_ZERO_CH6	S_16	4139
	AVERAGING_SAMPLES_CH6	U_8	8315
	AVERAGING_WINDOW_CH6	U_16	4299

Function	Register Name	Туре	Reg.
	AZ_APERTURE_BAND_CH6	U_16	4341
	AZ_CAPTURE_BAND_CH6	U_8	8327
	AZ_MOTION_BAND_CH6	U_8	8339
	CHANNEL6_TEXT	L_8_T	16403
	DATA_SOURCE_CH6	U_16	4456
	DISPLAY_FORMAT_CH6	O_8	8373
	OFFSET_CH6	S_32	369
	SCALE_FACTOR_CH6	F_32	1109
	TEXT_CHARACTER_CH6	U_8	8399
Channel 7	CH7	S_32	21
	CH7_PROCESSED	S_32	271
	CH7_RAW	S_32	295
	CH7_SCALED	S_32	319
Channel 7 Setup	AUTO_ZERO_CH7	S_16	4140
	AVERAGING_SAMPLES_CH7	U_8	8316
	AVERAGING_WINDOW_CH7	U_16	4300
	AZ_APERTURE_BAND_CH7	U_16	4342
	AZ_CAPTURE_BAND_CH7	U_8	8328
	AZ_MOTION_BAND_CH7	U_8	8340
	CHANNEL7_TEXT	L_8_T	16405
	DATA_SOURCE_CH7	U_16	4457
	DISPLAY_FORMAT_CH7	O_8	8374
	OFFSET_CH7	S_32	371
	SCALE_FACTOR_CH7	F_32	1111
	TEXT_CHARACTER_CH7	U_8	8400
Clock	DATE	U_8	8242
	DAYS	U_8	8241
	HOURS	U_8	8240
	HOURS_MINUTES	U_16_R	4438
	HRS_MIN_SEC	U_32_R	151
	MINUTES	U_8	8239
	MONTH	U_8	8243
	SECONDS	U_8	8238
	YEAR	U_8	8244
Codes	CAL	O_8	8193
	CODE1	O_8	8194
	CODE2	O_8	8195
	CODE3	O_8	8196
	CODE4	O_8	8197
	CODE5	O_8	8198
	CODE6	O_8	8199
	CODE7	O_8	8200
	CODE8	O_8	8201
	CODE9	O_8	8202
	CODE10	O_8	8203

Function	Register Name	Туре	Reg.
	LOG_READ_COUNT	U_16	4462
	LOG_READ_POINTER	U_32	491
	LOG_REG1	U_16	4417
	LOG_REG2	U_16	4418
	LOG_REG3	U_16	4419
	LOG_REG4	U_16	4420
	LOG_REG5	U_16	4421
	LOG_REG6	U_16	4422
	LOG_REG7	U_16	4423
	LOG_REG8	U_16	4424
	LOG_REG9	U_16	4425
	LOG_REG10	U_16	4426
	LOG_REG11	U_16	4427
	LOG_REG12	U_16	4428
	LOG_REG13	U_16	4429
	LOG_REG14	U_16	4430
	LOG_REG15	U_16	4431
	LOG_REG16	U_16	4432
	LOG_WRITE_POINTER	U_32	489
	SINGLE_LOG	C_124_T	16553
Data Logging Read Only	LOG_SAMPLE_DATE	U_8_R	8444
	LOG_SAMPLE_HOUR	U_8_R	8447
	LOG_SAMPLE_MINUTE	 U_8_R	8448
	LOG_SAMPLE_MONTH	U_8_R	8445
	LOG_SAMPLE_REG1	S_32_R	493
	LOG_SAMPLE_REG2	S_32_R	495
	LOG_SAMPLE_REG3	S_32_R	497
	LOG_SAMPLE_REG4	S_32_R	499
	LOG_SAMPLE_REG5	S_32_R	501
	LOG_SAMPLE_REG6	S_32_R	503
	LOG_SAMPLE_REG7	S_32_R	505
	LOG_SAMPLE_REG8	S_32_R	507
	LOG_SAMPLE_REG9		
		S_32_R	509
	LOG_SAMPLE_REG10	S_32_R	511
	LOG_SAMPLE_REG11	S_32_R	513
	LOG_SAMPLE_REG12	S_32_R	515
	LOG_SAMPLE_REG13	S_32_R	517
	LOG_SAMPLE_REG14	S_32_R	519
	LOG_SAMPLE_REG15	S_32_R	521
	LOG_SAMPLE_REG16	S_32_R	523
	LOG_SAMPLE_SECOND	U_8_R	8449
	LOG_SAMPLE_TRIGGER	U_8_R	8443
	LOG_SAMPLE_YEAR	U_8_R	8446
	MAX_LOG_SAMPLES	U_32_R	487
Digital	DIGITAL_OUT	U_32	249
	DO_1	B_0	249
	to	to	
	DO_32	B_31	249

Function	Register Name	Туре	Reg.
Digital Read Only	DIGITAL_IN	U_32_R	251
	DI_1	B_0_R	251
	DI_32	B_31_R	251
	IO_TYPE	U_8_R	8430
Display	BRIGHTNESS	U_8	8206
	CODE_BLANKING	U_16	4434
	CURRENT_ALPHA_CHARACTER	U_8	8392
	CURRENT_DISPLAY_FORMAT	U_8	8366
	DATA_SOURCE_DISPLAY1	U_16	4371
	DATA_SOURCE_DISPLAY2	U_16	4372
	DATA_SOURCE_DISPLAY3	U_16	4373
	DATA_SOURCE_PEAK_VALLEY1	U_16	4374
	DATA_SOURCE_PEAK_VALLEY2	U_16	4375
	DATA_SOURCE_PEAK_VALLEY3	U_16	4376
	DISPLAY	S_32	1
	DISPLAY_FORMAT_DEFAULT	O_8	8375
	PEAK1	S_32	57
	PEAK2	S_32	61
	PEAK3	S_32	65
	SETPOINT_BLANKING	_ U_16	4435
	TARE	S_32	77
	TEXT_CHARACTER_DEFAULT	U_8	8401
	VALLEY1	S_32	59
	VALLEY2	S_32	63
	VALLEY3	S_32	67
	VIEW_MODE_BLANKING	U_16	4436
Display Bargraph	BAR_COLOUR	U_16	4347
	BAR_HIGH	S_32	475
	BAR_LOW	S_32	473
	BAR_ZERO	U_8	8436
Display Format			
- opiaj i oriliat	DISPLAY_FORMAT_CH1	0_8	8368
Display i Simut	DISPLAY_FORMAT_CH1 DISPLAY_FORMAT_CH2	O_8 O_8	8368 8369
- Spay i omat			
- Spay i Simul	DISPLAY_FORMAT_CH2	O_8	8369
- Lopay i omiai	DISPLAY_FORMAT_CH2 DISPLAY_FORMAT_CH3	O_8 O_8	8369 8370
- Spay i Simul	DISPLAY_FORMAT_CH2 DISPLAY_FORMAT_CH3 DISPLAY_FORMAT_CH4	O_8 O_8 O_8	8369 8370 8371
- Lopay i office	DISPLAY_FORMAT_CH2 DISPLAY_FORMAT_CH3 DISPLAY_FORMAT_CH4 DISPLAY_FORMAT_CH5	O_8 O_8 O_8 O_8	8369 8370 8371 8372
- Spay i Simul	DISPLAY_FORMAT_CH2 DISPLAY_FORMAT_CH3 DISPLAY_FORMAT_CH4 DISPLAY_FORMAT_CH5 DISPLAY_FORMAT_CH6	O_8 O_8 O_8 O_8 O_8	8369 8370 8371 8372 8373
opidy i offiliat	DISPLAY_FORMAT_CH2 DISPLAY_FORMAT_CH3 DISPLAY_FORMAT_CH4 DISPLAY_FORMAT_CH5 DISPLAY_FORMAT_CH6 DISPLAY_FORMAT_CH7	O_8 O_8 O_8 O_8 O_8 O_8	8369 8370 8371 8372 8373
opidy : offiliat	DISPLAY_FORMAT_CH2 DISPLAY_FORMAT_CH3 DISPLAY_FORMAT_CH4 DISPLAY_FORMAT_CH5 DISPLAY_FORMAT_CH6 DISPLAY_FORMAT_CH7 DISPLAY_FORMAT_RESULT	O_8 O_8 O_8 O_8 O_8 O_8	8369 8370 8371 8372 8373 8374
- Spay i Simul	DISPLAY_FORMAT_CH2 DISPLAY_FORMAT_CH3 DISPLAY_FORMAT_CH4 DISPLAY_FORMAT_CH5 DISPLAY_FORMAT_CH6 DISPLAY_FORMAT_CH7 DISPLAY_FORMAT_CH7 DISPLAY_FORMAT_RESULT DISPLAY_FORMAT_TOTAL1	O_8 O_8 O_8 O_8 O_8 O_8 O_8 O_8 O_8	8369 8370 8371 8372 8373 8374 8367
opiay i offiliat	DISPLAY_FORMAT_CH2 DISPLAY_FORMAT_CH3 DISPLAY_FORMAT_CH4 DISPLAY_FORMAT_CH5 DISPLAY_FORMAT_CH6 DISPLAY_FORMAT_CH7 DISPLAY_FORMAT_CH7 DISPLAY_FORMAT_TOTAL1 DISPLAY_FORMAT_TOTAL1	O_8 O_8 O_8 O_8 O_8 O_8 O_8 O_8 O_8	8369 8370 8371 8372 8373 8374 8367 8376
opiay i offiliat	DISPLAY_FORMAT_CH2 DISPLAY_FORMAT_CH3 DISPLAY_FORMAT_CH4 DISPLAY_FORMAT_CH5 DISPLAY_FORMAT_CH6 DISPLAY_FORMAT_CH7 DISPLAY_FORMAT_RESULT DISPLAY_FORMAT_TOTAL1 DISPLAY_FORMAT_TOTAL2 DISPLAY_FORMAT_TOTAL3 DISPLAY_FORMAT_TOTAL4	O_8	8369 8370 8371 8372 8373 8374 8367 8376 8377 8378
opidy : offiliat	DISPLAY_FORMAT_CH2 DISPLAY_FORMAT_CH3 DISPLAY_FORMAT_CH4 DISPLAY_FORMAT_CH5 DISPLAY_FORMAT_CH6 DISPLAY_FORMAT_CH7 DISPLAY_FORMAT_RESULT DISPLAY_FORMAT_TOTAL1 DISPLAY_FORMAT_TOTAL2 DISPLAY_FORMAT_TOTAL3 DISPLAY_FORMAT_TOTAL4 DISPLAY_FORMAT_TOTAL4	O_8	8369 8370 8371 8372 8373 8374 8367 8376 8377 8378 8379
opidy : offiliat	DISPLAY_FORMAT_CH2 DISPLAY_FORMAT_CH3 DISPLAY_FORMAT_CH4 DISPLAY_FORMAT_CH5 DISPLAY_FORMAT_CH6 DISPLAY_FORMAT_CH7 DISPLAY_FORMAT_RESULT DISPLAY_FORMAT_TOTAL1 DISPLAY_FORMAT_TOTAL2 DISPLAY_FORMAT_TOTAL3 DISPLAY_FORMAT_TOTAL4 DISPLAY_FORMAT_TOTAL5 DISPLAY_FORMAT_TOTAL5 DISPLAY_FORMAT_TOTAL6	O_8	8369 8370 8371 8372 8373 8374 8367 8376 8377 8378 8379 8380 8381
Ziopiay i omitat	DISPLAY_FORMAT_CH2 DISPLAY_FORMAT_CH3 DISPLAY_FORMAT_CH4 DISPLAY_FORMAT_CH5 DISPLAY_FORMAT_CH6 DISPLAY_FORMAT_CH7 DISPLAY_FORMAT_RESULT DISPLAY_FORMAT_TOTAL1 DISPLAY_FORMAT_TOTAL2 DISPLAY_FORMAT_TOTAL3 DISPLAY_FORMAT_TOTAL4 DISPLAY_FORMAT_TOTAL4	O_8	8369 8370 8371 8372 8373 8374 8367 8376 8377 8378 8379

Function	Register Name	Туре	Reg.
	TEXT_CHARACTER_CH4	U_8	8397
	TEXT_CHARACTER_CH5	U_8	8398
	TEXT_CHARACTER_CH6	U_8	8399
	TEXT_CHARACTER_CH7	U_8	8400
	TEXT_CHARACTER_RESULT	U_8	8393
	TEXT_CHARACTER_TOTAL1	U_8	8402
	TEXT_CHARACTER_TOTAL2	U_8	8403
	TEXT_CHARACTER_TOTAL3	U_8	8404
	TEXT_CHARACTER_TOTAL4	U_8	8405
	TEXT_CHARACTER_TOTAL5	U_8	8406
	TEXT_CHARACTER_TOTAL6	U_8	8407
Display Text	DISPLAY_STRING	L_100_T	16385
	DISPLAY2 STRING	L_100_T	16387
	DISPLAY3_STRING	L_100_T	16389
	OVER_TEXT	L_8_T	16539
	PEAK1_TEXT	L_8_T	16441
	PEAK2_TEXT	L_8_T	16445
	PEAK3_TEXT	L_8_T	16449
	PRINT_STRING	L_62_T	16543
	UNDER_TEXT	L_8_T	16541
	VALLEY1_TEXT	L_8_T	16443
	VALLEY2_TEXT	L_8_T	16447
			16451
	VALLEY3_TEXT	L_8_T	
	CHANNEL1_TEXT	L_8_T	16393
	CHANNEL2_TEXT	L_8_T	16395
	CHANNEL3_TEXT	L_8_T	16397
	CHANNEL4_TEXT	L_8_T	16399
	CHANNEL5_TEXT	L_8_T	16401
	CHANNEL6_TEXT	L_8_T	16403
	CHANNEL7_TEXT	L_8_T	16405
	RESULT_TEXT	L_8_T	16391
	SETPOINT1_TEXT	L_8_T	16495
	SETPOINT2_TEXT	L_8_T	16497
	SETPOINT3_TEXT	L_8_T	16499
	SETPOINT4_TEXT	L_8_T	16501
	SETPOINT5_TEXT	L_8_T	16503
	SETPOINT6_TEXT	L_8_T	16505
	TOTAL1_TEXT	L_8_T	16421
	TOTAL2_TEXT	L_8_T	16423
	TOTAL3_TEXT	L_8_T	16425
	TOTAL4_TEXT	L_8_T	16427
	TOTAL5_TEXT	L_8_T	16429
	TOTAL6_TEXT	L_8_T	16431
	AUX1_TEXT	L_8_T	16463
	to		to
	AUX16_TEXT	L_8_T	16493
Display User Auxiliary	AUX1	S_32	79
	AUX2	S_32	81

Function	Register Name	Туре	Reg.
	AUX3	S_32	83
	AUX4	S_32	85
	AUX5	S_32	87
	AUX6	S_32	89
	AUX7	S_32	91
	AUX8	S_32	93
	AUX9	S_32	95
	AUX10	S_32	97
	AUX11	S_32	99
	AUX12	S_32	101
	AUX13	S_32	103
	AUX14	S_32	105
	AUX15	S_32	107
	AUX16	S_32	109
Display User Auxiliary Setup	AUX1_TEXT	L_8_T	16463
	to		to
	AUX16_TEXT	L_8_T	16493
	DISPLAY_FORMAT_AUX1	0_8	8382
	DISPLAY_FORMAT_AUX2	0_8	8383
	DISPLAY_FORMAT_AUX3	0_8	8384
	DISPLAY_FORMAT_AUX4	0_8	8385
	DISPLAY_FORMAT_AUX5	O_8	8386
	DISPLAY_FORMAT_AUX6	O_8	8387
	DISPLAY_FORMAT_AUX7	O_8	8388
	DISPLAY_FORMAT_AUX8	O_8	8389
	DISPLAY_FORMAT_AUX9	O_8	8390
	DISPLAY_FORMAT_AUX10	O_8	8391
	DISPLAY_FORMAT_AUX11	O_8	8469
	DISPLAY_FORMAT_AUX12	O_8	8470
	DISPLAY_FORMAT_AUX13	O_8	8471
	DISPLAY_FORMAT_AUX14	O_8	8472
	DISPLAY_FORMAT_AUX15	O_8	8473
	DISPLAY_FORMAT_AUX16	O_8	8474
	TEXT_CHARACTER_AUX1	U_8	8408
	TEXT_CHARACTER_AUX2	U_8	8409
	TEXT_CHARACTER_AUX3	U_8	8410
	TEXT_CHARACTER_AUX4	U_8	8411
	TEXT_CHARACTER_AUX5	U_8	8412
	TEXT_CHARACTER_AUX6	U_8	8413
	TEXT_CHARACTER_AUX7	U_8	8414
	TEXT_CHARACTER_AUX8	U_8	8415
	TEXT_CHARACTER_AUX9	U_8	8416
	TEXT_CHARACTER_AUX10	U_8	8417
	TEXT_CHARACTER_AUX11	U_8	8475
	TEXT_CHARACTER_AUX12	U_8	8476
	TEXT_CHARACTER_AUX13	U_8	8477
	TEXT_CHARACTER_AUX14	U_8	8478
	TEXT_CHARACTER_AUX15	U_8	8479

Edit Mode Linearization 1	TEXT_CHARACTER_AUX16 EDIT_DEF EDIT_MAX EDIT_MIN EDIT_STATE EDIT_VALUE NON_VOLATILE_WRITE TABLE1_DATE TABLE1_INPUT1 to TABLE1_INPUT32 TABLE1_OUTPUT1 to TABLE1_OUTPUT1 to TABLE1_SERIAL_NO TABLE2_DATE TABLE2_INPUT1	U_8 S_32 S_32 S_32 U_8 S_32 B_5 U_16 S_24 S_24 S_24 U_16 U_16 U_16	8480 237 233 235 8223 231 8222 4277 2049 to 2111 2113 to 2175 4285
Linearization 1	EDIT_MAX EDIT_MIN EDIT_STATE EDIT_VALUE NON_VOLATILE_WRITE TABLE1_DATE TABLE1_INPUT1 to TABLE1_INPUT32 TABLE1_OUTPUT1 to TABLE1_OUTPUT1 TABLE1_OUTPUT32 TABLE1_SERIAL_NO TABLE2_DATE TABLE2_INPUT1	S_32 S_32 U_8 S_32 B_5 U_16 S_24 S_24 S_24 S_24 U_16	233 235 8223 231 8222 4277 2049 to 2111 2113 to 2175 4285
	EDIT_MIN EDIT_STATE EDIT_VALUE NON_VOLATILE_WRITE TABLE1_DATE TABLE1_INPUT1 to TABLE1_INPUT32 TABLE1_OUTPUT1 to TABLE1_OUTPUT1 TABLE1_OUTPUT32 TABLE1_SERIAL_NO TABLE2_DATE TABLE2_INPUT1	S_32 U_8 S_32 B_5 U_16 S_24 S_24 S_24 S_24 U_16	235 8223 231 8222 4277 2049 to 2111 2113 to 2175 4285
	EDIT_STATE EDIT_VALUE NON_VOLATILE_WRITE TABLE1_DATE TABLE1_INPUT1 to TABLE1_INPUT32 TABLE1_OUTPUT1 to TABLE1_OUTPUT32 TABLE1_SERIAL_NO TABLE2_DATE TABLE2_INPUT1	U_8 S_32 B_5 U_16 S_24 S_24 S_24 S_24 U_16	8223 231 8222 4277 2049 to 2111 2113 to 2175 4285
	EDIT_VALUE NON_VOLATILE_WRITE TABLE1_DATE TABLE1_INPUT1 to TABLE1_INPUT32 TABLE1_OUTPUT1 to TABLE1_OUTPUT32 TABLE1_OUTPUT32 TABLE1_SERIAL_NO TABLE2_DATE TABLE2_INPUT1	S_32 B_5 U_16 S_24 S_24 S_24 U_16	231 8222 4277 2049 to 2111 2113 to 2175 4285
	TABLE1_DATE TABLE1_INPUT1 to TABLE1_INPUT32 TABLE1_OUTPUT1 to TABLE1_OUTPUT32 TABLE1_OUTPUT32 TABLE1_OUTPUT32 TABLE1_SERIAL_NO TABLE2_DATE TABLE2_INPUT1	B_5 U_16 S_24 S_24 S_24 S_24 U_16	8222 4277 2049 to 2111 2113 to 2175 4285
	TABLE1_DATE TABLE1_INPUT1 to TABLE1_INPUT32 TABLE1_OUTPUT1 to TABLE1_OUTPUT32 TABLE1_SERIAL_NO TABLE2_DATE TABLE2_INPUT1	U_16 S_24 S_24 S_24 S_24 U_16	4277 2049 to 2111 2113 to 2175 4285
	TABLE1_INPUT1 to TABLE1_INPUT32 TABLE1_OUTPUT1 to TABLE1_OUTPUT32 TABLE1_SERIAL_NO TABLE2_DATE TABLE2_INPUT1	S_24 S_24 S_24 S_24 U_16	2049 to 2111 2113 to 2175 4285
Linearization 2	to TABLE1_INPUT32 TABLE1_OUTPUT1 to TABLE1_OUTPUT32 TABLE1_SERIAL_NO TABLE2_DATE TABLE2_INPUT1	S_24 S_24 S_24 U_16	to 2111 2113 to 2175 4285
Linearization 2	TABLE1_INPUT32 TABLE1_OUTPUT1 to TABLE1_OUTPUT32 TABLE1_SERIAL_NO TABLE2_DATE TABLE2_INPUT1	S_24 S_24 U_16	2111 2113 to 2175 4285
Linearization 2	TABLE1_OUTPUT1 to TABLE1_OUTPUT32 TABLE1_SERIAL_NO TABLE2_DATE TABLE2_INPUT1	S_24 S_24 U_16	2113 to 2175 4285
Linearization 2	to TABLE1_OUTPUT32 TABLE1_SERIAL_NO TABLE2_DATE TABLE2_INPUT1	S_24 U_16	to 2175 4285
Linearization 2	TABLE1_OUTPUT32 TABLE1_SERIAL_NO TABLE2_DATE TABLE2_INPUT1	U_16	2175 4285
Linearization 2	TABLE1_SERIAL_NO TABLE2_DATE TABLE2_INPUT1	U_16	4285
Linearization 2	TABLE2_DATE TABLE2_INPUT1		
Linearization 2	TABLE2_INPUT1	U_16	4278
			1210
		S_24	2177
	to		to
	TABLE2_INPUT32	S_24	2239
	TABLE2_OUTPUT1	S_24	2241
	to		to
	TABLE2_OUTPUT32	S_24	2303
	TABLE2_SERIAL_NO	U_16	4286
Linearization 3	TABLE3_DATE	U_16	4279
	TABLE3_INPUT1	S_24	2305
	to		to
	TABLE3_INPUT32	S_24	2367
	TABLE3_OUTPUT1	S_24	2369
	to		to
	TABLE3_OUTPUT32	S_24	2431
	TABLE3_SERIAL_NO	U_16	4287
Linearization 4	TABLE4_DATE	U_16	4280
	TABLE4_INPUT1	S_24	2433
	to		to
	TABLE4_INPUT32	S_24	2495
	TABLE4_OUTPUT1	S_24	2497
	to		to
	TABLE4_OUTPUT32	S_24	2559
	TABLE4_SERIAL_NO	U_16	4288
PID 1	PID1_OUTPUT	U_16	4125
	PID1_DERIVATIVE_VALUE	U_16	4213
	PID1_INTEGRAL_VALUE	U_16	4197
	PID1_PROPORTIONAL_BAND	U_16	4181
	PID1_ANTI_RESET_WINDUP	_ U_16	4245
	PID1_CYCLE_TIME	U_16	4261

PID1_ERROR_SUM	Function	Register Name	Туре	Reg.
PID 2 PID 2 ANTL-RESET_WINDUP U_16		PID1_ERROR_SUM	F_32	1057
PID 2 PID 2 ANTI_RESET_WINDUP PID 4 4266 PID 2 CYCLE_TIME PID 2 CYCLE_TIME PID 2 DERIVATIVE_VALUE PID 2_DERIVATIVE_VALUE PID 2_DERIVATIVE_VALUE PID 3 PID 3_ANTI_RESET_WINDUP PID 3 PID 3_ANTI_RESET_WINDUP PID 3_DERIVATIVE_VALUE PID 3_DERIVATIVE_VALUE PID 3_DERIVATIVE_VALUE PID 4_DERIVATIVE_VALUE PID 5_DERIVATIVE_VALUE PID 6_DERIVATIVE_VALUE PID 6_DERIVATIVE_VALUE PID 6_DERIVATIVE_VALUE PID 7_DERIVATIVE_VALUE PID 7_DERIVE REPOR_PORTITIONAL_BAND PID 7_DERIVE REPOR_PORTITONAL_BAND PID 7_DERIVE REPOR_PORTITONAL_BAND PID 7_DERIVE REPOR_		PID1_INTEGRAL_TERM	F_32	1069
PID2_CYCLE_TIME		PID1_SPAN	S_32	429
PID2_DERIVATIVE_VALUE	PID 2	PID2_ANTI_RESET_WINDUP	U_16	4246
PID2_ERROR_SUM		PID2_CYCLE_TIME	U_16	4262
PID2_INTEGRAL_VALUE		PID2_DERIVATIVE_VALUE	U_16	4214
PID2_INTEGRAL_VALUE		PID2_ERROR_SUM	F_32	1059
PID2_OUTPUT U_16 4126 PID2_DOTPUT U_16 4182 PID2_SPAN S_32 431 PID3_ANTL_RESET_WINDUP U_16 4247 PID3_CYCLE_TIME U_16 4263 PID3_DERIVATIVE_VALUE U_16 4215 PID3_ERROR_SUM F_32 1061 PID3_INTEGRAL_VALUE U_16 4183 PID3_OUTPUT U_16 4183 PID3_SPAN S_32 433 PID4_ANTL_RESET_WINDUP U_16 4248 PID4_CYCLE_TIME U_16 4264 PID4_CYCLE_TIME U_16 4264 PID4_CYCLE_TIME U_16 4264 PID4_CYCLE_TIME U_16 4264 PID4_ERROR_SUM F_32 1063 PID4_INTEGRAL_VALUE U_16 4266 PID4_ERROR_SUM F_32 1063 PID4_INTEGRAL_VALUE U_16 4200 PID4_OUTPUT U_16 4284 PID4_DOTPUT U_16 4284 PID4_SPAN S_32 435 PID4_INTEGRAL_VALUE U_16 4200 PID4_SPAN S_32 435 PID5_ANTL_RESET_WINDUP U_16 4285 PID5_DERIVATIVE_VALUE U_16 4265 PID5_DERIVATIVE_VALUE U_16 4265 PID5_DERIVATIVE_VALUE U_16 4267 PID5_CYCLE_TIME U_16 4267 PID5_CYCLE_TIME U_16 4267 PID5_DERIVATIVE_VALUE U_16 4287 PID5_INTEGRAL_TERM F_32 1067 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_VALUE U_16 4267 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_VALUE U_16 4261 PID5_DERIVATIVE_VALUE U_16 4261 PID5_DERIVATIVE_VALUE U_16 4261 PID5_DERIVATIVE_VALUE U_16 4266 PID5_DERIVATIVE_VALUE U_16 4266 PID5_DERIVATIVE_VALUE U_16 4266 PID5_DERIVATIVE_VALUE U_16 4266 PID6_CYCLE_TIME U_16 4266 PID6_CYCLE_TIME U_16 4266 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4260 PID6_DERIVATIVE_VALUE U_16 4260 PID6_DERIVATIVE_VALUE U_16 4260 PID6_DERIVATIVE_VALUE U_16		PID2_INTEGRAL_TERM	F_32	1071
PID2_PROPORTIONAL_BAND		PID2_INTEGRAL_VALUE	U_16	4198
PID2_SPAN S_32 431 PID3 ANTL_RESET_WINDUP PID3_OCYCLE_TIME PID3_DERIVATIVE_VALUE PID3_DERIVATIVE_VALUE PID3_DERIVATIVE_VALUE PID3_DERIVATIVE_VALUE PID3_INTEGRAL_YALUE PID3_INTEGRAL_YALUE PID4_DERIVATIVE_VALUE PID5_SPAN PID4 PID4_ANTL_RESET_WINDUP PID4_CYCLE_TIME PID4_DERIVATIVE_VALUE PID5_DERIVATIVE_VALUE PID6_DERIVATIVE_VALUE PID6_DERIVATIVE_VALUE PID6_DERIVATIVE_VALUE PID5_DERIVATIVE_VALUE PID6_DERIVATIVE_VALUE PID6_DERIVATIVE_VAL		PID2_OUTPUT	U_16	4126
PID 3 PID3_ANTI_RESET_WINDUP U_16 4247 PID3_CYCLE_TIME U_16 4263 PID3_CYCLE_TIME U_16 4263 PID3_DERRVATIVE_VALUE U_16 4215 PID3_ERROR_SUM F_32 1061 PID3_INTEGRAL_TERM F_32 1073 PID3_INTEGRAL_TERM F_32 1073 PID3_DYCLE_TIME U_16 4193 PID3_OPPORTIONAL_BAND U_16 4183 PID3_SPAN S_32 433 PID4_ANTI_RESET_WINDUP U_16 4264 PID4_DERRVATIVE_VALUE U_16 4264 PID4_DERRVATIVE_VALUE U_16 4264 PID4_ERROR_SUM F_32 1063 PID4_INTEGRAL_TERM F_32 1073 PID4_INTEGRAL_TERM F_32 1075 PID4_OUTPUT U_16 4226 PID4_DERRVATIVE_VALUE U_16 4200 PID4_OUTPUT U_16 4184 PID4_SPAN S_32 435 PID5_PROPORTIONAL_BAND U_16 4184 PID4_SPAN S_32 435 PID5_DERRVATIVE_VALUE U_16 4200 PID4_DERRVATIVE_VALUE U_16 4200 PID4_DERRVATIVE_VALUE U_16 4200 PID4_DERRVATIVE_VALUE U_16 4265 PID5_DERRVATIVE_VALUE U_16 4266 PID5_DERRVATIVE_VALUE U_16 4266 PID5_DERRVATIVE_VALUE U_16 4266 PID5_DERRVATIVE_VALUE U_16 4270 PID5_ERROR_SUM F_32 1065 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_TERM F_32 1077 PID5_DERRVATIVE_VALUE U_16 4201 PID5_OUTPUT U_16 4185 PID5_DERRVATIVE_VALUE U_16 4201 PID5_OUTPUT U_16 4201 PID5_OUTPUT U_16 4201 PID5_DERRVATIVE_VALUE U_16 4201 PID5_DERRVATIVE_VALUE U_16 4201 PID5_DERRVATIVE_VALUE U_16 4206 PID6_CYCLE_TIME U_16 4250 PID6_CYCLE_TIME U_16 4268 PID6_DERRVATIVE_VALUE U_16 4269 PID6_DERRVATIVE_VALUE U_16 4269 PID6_DERRVATIVE_VALUE U_16 4200 PID6_INTEGRAL_TERM F_32 1067		PID2_PROPORTIONAL_BAND	U_16	4182
PID3_CYCLE_TIME		PID2_SPAN	S_32	431
PID3_DERINATIVE_VALUE	PID 3	PID3_ANTI_RESET_WINDUP	U_16	4247
PID3_ERROR_SUM		PID3_CYCLE_TIME	U_16	4263
PID3_INTEGRAL_TERM F.32 1073 PID3_INTEGRAL_VALUE U_16 4199 PID3_OUTPUT U_16 4127 PID3_PROPORTIONAL_BAND U_16 4183 PID3_SPAN S.32 433 PID 4 PID4_ANTI_RESET_WINDUP U_16 4248 PID4_CYCLE_TIME U_16 4264 PID4_ERROR_SUM F.32 1063 PID4_INTEGRAL_TERM F.32 1063 PID4_INTEGRAL_TERM F.32 1075 PID4_INTEGRAL_TERM F.32 1075 PID4_PROPORTIONAL_BAND U_16 4128 PID4_PROPORTIONAL_BAND U_16 4128 PID4_SPAN S.32 435 PID 5 PID5_ANTI_RESET_WINDUP U_16 4265 PID5_CYCLE_TIME U_16 4265 PID5_DERIVATIVE_VALUE U_16 4265 PID5_DERIVATIVE_VALUE U_16 4265 PID5_ERROR_SUM F.32 1065 PID5_INTEGRAL_TERM F.32 1066 PID5_INTEGRAL_TERM F.32 1077 PID5_INTEGRAL_TERM F.32 1066 PID5_INTEGRAL_TERM F.32 1077 PID5_INTEGRAL_TERM F.32 1077 PID5_INTEGRAL_TERM F.32 1077 PID5_INTEGRAL_TERM F.32 1077 PID5_INTEGRAL_VALUE U_16 4201 PID5_OUTPUT U_16 4129 PID5_SPAN S.32 437 PID 6 PID6_ANTI_RESET_WINDUP U_16 4260 PID5_SPAN F.32 1067 PID6_ERROR_SUM F.32 1067 PID6_INTEGRAL_TERM F.32 1079 PID6_INTEGRAL_TERM F.32 1079 PID6_INTEGRAL_TERM F.32 1079 PID6_INTEGRAL_TERM F.32 1079		PID3_DERIVATIVE_VALUE	U_16	4215
PID3_INTEGRAL_VALUE U_16 4199 PID3_OUTPUT U_16 4127 PID3_PROPORTIONAL_BAND U_16 4183 PID3_SPAN S_32 433 PID 4 PID4_ANTI_RESET_WINDUP U_16 4248 PID4_CYCLE_TIME U_16 4264 PID4_DERIVATIVE_VALUE U_16 4216 PID4_ERROR_SUM F_32 1063 PID4_INTEGRAL_TERM F_32 1075 PID4_INTEGRAL_VALUE U_16 4200 PID4_OUTPUT U_16 4128 PID4_PROPORTIONAL_BAND U_16 4184 PID4_SPAN S_32 435 PID5_ANTI_RESET_WINDUP U_16 4266 PID5_CYCLE_TIME U_16 4266 PID5_DERIVATIVE_VALUE U_16 4267 PID5_INTEGRAL_TERM F_32 1065 PID5_ERROR_SUM F_32 1065 PID5_ERROR_SUM F_32 1065 PID5_INTEGRAL_TERM F_32 1065 PID5_OUTPUT U_16 4270 PID5_INTEGRAL_TERM F_32 1065 PID5_OUTPUT U_16 4129 PID5_OUTPUT U_16 4129 PID5_OUTPUT U_16 4129 PID5_OUTPUT U_16 4201 PID6_OUTPUT U_16 4201		PID3_ERROR_SUM	F_32	1061
PID3_OUTPUT U_16 4127 PID3_PROPORTIONAL_BAND U_16 4183 PID3_SPAN S_32 433 PID 4 PID4_ANTI_RESET_WINDUP U_16 4264 PID4_CYCLE_TIME U_16 4264 PID4_DERINATIVE_VALUE U_16 4216 PID4_ERROR_SUM F_32 1063 PID4_INTEGRAL_TERM F_32 1075 PID4_INTEGRAL_VALUE U_16 4200 PID4_OUTPUT U_16 4128 PID4_SPAN S_32 435 PID5_ANTI_RESET_WINDUP U_16 4265 PID5_CYCLE_TIME U_16 4265 PID5_DERINATIVE_VALUE U_16 4217 PID5_DERINATIVE_VALUE U_16 4217 PID5_ERROR_SUM F_32 1065 PID5_ERROR_SUM F_32 1065 PID5_ERROR_SUM F_32 1065 PID5_DERINATIVE_VALUE U_16 4217 PID5_ERROR_SUM F_32 1065 PID5_INTEGRAL_TERM F_32 1077 PID5_OUTPUT U_16 4129 PID5_SPAN S_32 437 PID 6 PID6_ANTI_RESET_WINDUP U_16 4250 PID6_ERROR_SUM F_32 1067 PID6_DERINATIVE_VALUE U_16 4266 PID6_DERINATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1067 PID6_INTEGRAL_TERM F_32 1067 PID6_INTEGRAL_TERM F_32 1067 PID6_INTEGRAL_TERM F_32 1067		PID3_INTEGRAL_TERM	F_32	1073
PID3_PROPORTIONAL_BAND PID3_SPAN PID4_SPAN PID4_ANTI_RESET_WINDUP PID4_CYCLE_TIME PID4_DERIVATIVE_VALUE PID4_ERROR_SUM PID4_INTEGRAL_TERM PID4_UTPUT PID4_OUTPUT PID4_SPAN PID5_ANTI_RESET_WINDUP PID5_CYCLE_TIME PID5_CYCLE_TIME PID5_ERROR_SUM PID5_ERROR_SUM PID5_ERROR_SUM PID5_ERROR_SUM PID5_ERROR_SUM PID5_DERIVATIVE_VALUE PID5_OUTPUT PID5_INTEGRAL_TERM PID5_OUTPUT PID5_NTEGRAL_VALUE PID5_OUTPUT PID5_PROPORTIONAL_BAND PID5_PROPORTIONAL_BAND PID5_SPAN PID5_SPAN PID6_OYCLE_TIME PID6_OUTPUT PID6_OUTPUT PID6_OUTPUT PID6_OUTPUT PID6_DERIVATIVE_VALUE PID6_DERIVATIVE_VALUE PID6_DERIVATIVE_VALUE PID6_DERIVATIVE_VALUE PID6_OYCLE_TIME PID6_OYCLE_TIME U_16 4250 PID6_DERIVATIVE_VALUE PID6_DERIVE_PID6_DERIVATIVE_VALUE PID6_DERIVE_PID6_DERIVATIVE_VALUE PID6_DERIVE_PID6_DERIVE_PID6_DERIVE_PID6_DERIVE_PID6_DERIVE_PID6_DERIVE_PID6_DERIVE_PID6_DERIVE_PID6_DERIVE_PID6_DERIVE_PID6_DERIVE_P		PID3_INTEGRAL_VALUE	U_16	4199
PID3_SPAN S_32 433 PID4_ANTI_RESET_WINDUP U_16 4248 PID4_CYCLE_TIME U_16 4261 PID4_DERIVATIVE_VALUE U_16 4216 PID4_ERROR_SUM F_32 1075 PID4_INTEGRAL_TERM F_32 1075 PID4_INTEGRAL_VALUE U_16 4200 PID4_OUTPUT U_16 4128 PID4_PROPORTIONAL_BAND U_16 4184 PID4_SPAN S_32 435 PID5_ANTI_RESET_WINDUP U_16 4249 PID5_CYCLE_TIME U_16 4265 PID5_DERIVATIVE_VALUE U_16 4217 PID5_ERROR_SUM F_32 1065 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_VALUE U_16 4201 PID5_OUTPUT U_16 4201 PID5_OUTPUT U_16 4201 PID5_PROPORTIONAL_BAND U_16 4185 PID5_SPAN S_32 437 PID6_CYCLE_TIME U_16 4250 PID6_CYCLE_TIME U_16 4250 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4266 PID6_DERIVATIVE_VALUE U_16 4260 PI		PID3_OUTPUT	U_16	4127
PID 4 PID4_ANTI_RESET_WINDUP PID4_CYCLE_TIME U_16		PID3_PROPORTIONAL_BAND	U_16	4183
PID4_CYCLE_TIME U_16 4264 PID4_DERIVATIVE_VALUE U_16 4216 PID4_ERROR_SUM F_32 1063 PID4_INTEGRAL_TERM F_32 1075 PID4_INTEGRAL_VALUE U_16 4200 PID4_OUTPUT U_16 4128 PID4_PROPORTIONAL_BAND U_16 4184 PID4_SPAN S_32 435 PID5_ANTI_RESET_WINDUP U_16 4265 PID5_DERIVATIVE_VALUE U_16 4217 PID5_ERROR_SUM F_32 1065 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_TERM U_16 4201 PID5_OUTPUT U_16 4129 PID5_SPAN S_32 437 PID 6 PID6_ANTI_RESET_WINDUP U_16 4250 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4266 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4201 PID5_SPAN S_32 437 PID 6 PID6_ANTI_RESET_WINDUP U_16 4250 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4266 PID6_DERIVATIVE_VALUE U_16 4266 PID6_DERIVATIVE_VALUE U_16 4266 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079		PID3_SPAN	S_32	433
PID4_DERIVATIVE_VALUE PID4_ERROR_SUM F_32 1063 PID4_INTEGRAL_TERM F_32 1075 PID4_INTEGRAL_TERM F_32 1075 PID4_UTEGRAL_VALUE U_16 4200 PID4_OUTPUT U_16 4184 PID4_SPAN S_32 435 PID5_ANTI_RESET_WINDUP V_16 4249 PID5_CYCLE_TIME V_16 V_16 4217 PID5_ERROR_SUM F_32 1065 PID5_INTEGRAL_VALUE V_16 4201 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_VALUE V_16 4201 PID5_OUTPUT V_16 4219 PID5_PROPORTIONAL_BAND V_16 4217 PID5_SPAN S_32 437 PID6 PID6_ANTI_RESET_WINDUP V_16 4201 PID5_PROPORTIONAL_BAND V_16 4185 PID5_PROPORTIONAL_BAND V_16 4185 PID6_SPAN S_32 437 PID6_CYCLE_TIME V_16 4266 PID6_CYCLE_TIME V_16 4266 PID6_CYCLE_TIME V_16 4266 PID6_DERIVATIVE_VALUE V_16 4278 PID6_ERROR_SUM F_32 1067 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_TERM F_32 1079	PID 4	PID4_ANTI_RESET_WINDUP	U_16	4248
PID4_ERROR_SUM F_32 1063 PID4_INTEGRAL_TERM F_32 1075 PID4_INTEGRAL_VALUE U_16 4200 PID4_OUTPUT U_16 4128 PID4_PROPORTIONAL_BAND U_16 4184 PID4_SPAN S_32 435 PID 5 PID5_ANTI_RESET_WINDUP U_16 4265 PID5_CYCLE_TIME U_16 4217 PID5_ERROR_SUM F_32 1065 PID5_INTEGRAL_VALUE U_16 4201 PID5_INTEGRAL_VALUE U_16 4201 PID5_OUTPUT U_16 4129 PID5_OUTPUT U_16 4129 PID5_SPAN S_32 437 PID 6 PID6_ANTI_RESET_WINDUP U_16 4250 PID6_CYCLE_TIME U_16 4266 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4266 PID6_DERIVATIVE_VALUE U_16 4266 PID6_CYCLE_TIME U_16 4260 PID6_CYCLE_TIME U_16 4266 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202		PID4_CYCLE_TIME	U_16	4264
PID4_INTEGRAL_TERM F_32 1075 PID4_INTEGRAL_VALUE U_16 4200 PID4_OUTPUT U_16 4128 PID4_PROPORTIONAL_BAND U_16 4184 PID4_SPAN S_32 435 PID5_ANTI_RESET_WINDUP U_16 4249 PID5_CYCLE_TIME U_16 4265 PID5_DERIVATIVE_VALUE U_16 4217 PID5_INTEGRAL_TERM F_32 1065 PID5_INTEGRAL_VALUE U_16 4201 PID5_OUTPUT U_16 4129 PID5_OUTPUT U_16 4129 PID5_SPAN S_32 437 PID6_ANTI_RESET_WINDUP U_16 4266 PID5_DERIVATIVE_VALUE U_16 4201 PID5_INTEGRAL_VALUE U_16 4201 PID5_OUTPUT U_16 4129 PID5_SPAN S_32 437 PID6_CYCLE_TIME U_16 4266 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4266 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202		PID4_DERIVATIVE_VALUE	U_16	4216
PID4_INTEGRAL_VALUE U_16 4200 PID4_OUTPUT U_16 4128 PID4_PROPORTIONAL_BAND U_16 4184 PID4_SPAN S_32 435 PID 5 PID5_ANTI_RESET_WINDUP U_16 4265 PID5_CYCLE_TIME U_16 4265 PID5_DERIVATIVE_VALUE U_16 4217 PID5_ERROR_SUM F_32 1065 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_VALUE U_16 4201 PID5_OUTPUT U_16 4129 PID5_PROPORTIONAL_BAND U_16 4185 PID5_SPAN S_32 437 PID 6 PID6_ANTI_RESET_WINDUP U_16 4266 PID6_DERIVATIVE_VALUE U_16 4266 PID6_DERIVATIVE_VALUE U_16 4266 PID6_DERIVATIVE_VALUE U_16 4266 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079		PID4_ERROR_SUM	F_32	1063
PID4_OUTPUT U_16 4128 PID4_PROPORTIONAL_BAND U_16 4184 PID4_SPAN S_32 435 PID 5 PID5_ANTI_RESET_WINDUP U_16 4265 PID5_CYCLE_TIME U_16 4217 PID5_DERIVATIVE_VALUE U_16 4217 PID5_ERROR_SUM F_32 1065 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_VALUE U_16 4201 PID5_OUTPUT U_16 4129 PID5_SPAN S_32 437 PID 6 PID6_ANTI_RESET_WINDUP U_16 4250 PID6_CYCLE_TIME U_16 4266 PID6_CYCLE_TIME U_16 4266 PID6_CRESET_WINDUP U_16 4266 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202		PID4_INTEGRAL_TERM	F_32	1075
PID4_PROPORTIONAL_BAND PID4_SPAN S_32 435 PID 5 PID5_ANTI_RESET_WINDUP PID5_CYCLE_TIME PID5_CYCLE_TIME PID5_DERIVATIVE_VALUE PID5_ERROR_SUM PID5_INTEGRAL_TERM PID5_INTEGRAL_VALUE PID5_OUTPUT PID5_OUTPUT PID5_PROPORTIONAL_BAND PID5_SPAN PID5_SPAN PID6_ANTI_RESET_WINDUP PID5_SPAN PID6_CYCLE_TIME U_16 4250 PID6_CYCLE_TIME U_16 4250 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4218 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_TERM F_32 1079		PID4_INTEGRAL_VALUE	U_16	4200
PID 5 PID 6		PID4_OUTPUT	U_16	4128
PID 5 PID 5 PID5_ANTI_RESET_WINDUP PID5_CYCLE_TIME PID5_CYCLE_TIME PID5_DERIVATIVE_VALUE PID5_DERROR_SUM PID5_INTEGRAL_TERM PID5_INTEGRAL_TERM PID5_INTEGRAL_VALUE PID5_OUTPUT PID5_PROPORTIONAL_BAND PID5_SPAN PID5_SPAN PID6_ANTI_RESET_WINDUP PID6_CYCLE_TIME PID6_CYCLE_TIME PID6_DERIVATIVE_VALUE PID6_DERIVATIVE_VALUE PID6_ERROR_SUM PID6_INTEGRAL_TERM PID6_INTEGRAL_TERM PID6_INTEGRAL_TERM PID6_INTEGRAL_TERM PID6_INTEGRAL_TERM PID6_INTEGRAL_TERM PID6_INTEGRAL_TERM PID6_INTEGRAL_VALUE U_16 4202		PID4_PROPORTIONAL_BAND	U_16	4184
PID5_CYCLE_TIME U_16 4265 PID5_DERIVATIVE_VALUE U_16 4217 PID5_ERROR_SUM F_32 1065 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_VALUE U_16 4201 PID5_OUTPUT U_16 4129 PID5_PROPORTIONAL_BAND U_16 4185 PID5_SPAN S_32 437 PID6_ANTI_RESET_WINDUP U_16 4250 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202		PID4_SPAN	S_32	435
PID5_DERIVATIVE_VALUE U_16 4217 PID5_ERROR_SUM F_32 1065 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_VALUE U_16 4201 PID5_OUTPUT U_16 4129 PID5_PROPORTIONAL_BAND U_16 4185 PID5_SPAN S_32 437 PID 6 PID6_ANTI_RESET_WINDUP U_16 4266 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202	PID 5	PID5_ANTI_RESET_WINDUP	U_16	4249
PID5_ERROR_SUM F_32 1065 PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_VALUE U_16 4201 PID5_OUTPUT U_16 4185 PID5_SPAN S_32 437 PID6_ANTI_RESET_WINDUP U_16 4266 PID6_CYCLE_TIME U_16 4218 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202			U_16	4265
PID5_INTEGRAL_TERM F_32 1077 PID5_INTEGRAL_VALUE U_16 4201 PID5_OUTPUT U_16 4129 PID5_PROPORTIONAL_BAND U_16 4185 PID5_SPAN S_32 437 PID 6 PID6_ANTI_RESET_WINDUP U_16 4250 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202		PID5_DERIVATIVE_VALUE	U_16	4217
PID5_INTEGRAL_VALUE U_16 4201 PID5_OUTPUT U_16 4129 PID5_PROPORTIONAL_BAND U_16 4185 PID5_SPAN S_32 437 PID 6 PID6_ANTI_RESET_WINDUP U_16 4250 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202		PID5_ERROR_SUM		1065
PID5_OUTPUT U_16 4129 PID5_PROPORTIONAL_BAND U_16 4185 PID5_SPAN S_32 437 PID 6 PID6_ANTI_RESET_WINDUP U_16 4250 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202		PID5_INTEGRAL_TERM	F_32	1077
PID5_PROPORTIONAL_BAND U_16 4185 PID5_SPAN S_32 437 PID 6 PID6_ANTI_RESET_WINDUP U_16 4250 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202		PID5_INTEGRAL_VALUE	U_16	4201
PID5_SPAN S_32 437 PID 6 PID6_ANTI_RESET_WINDUP U_16 4250 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202		PID5_OUTPUT	U_16	4129
PID 6 PID6_ANTI_RESET_WINDUP U_16 4250 PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202		PID5_PROPORTIONAL_BAND	U_16	4185
PID6_CYCLE_TIME U_16 4266 PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202		PID5_SPAN	S_32	437
PID6_DERIVATIVE_VALUE U_16 4218 PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202	PID 6		U_16	4250
PID6_ERROR_SUM F_32 1067 PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202		PID6_CYCLE_TIME	U_16	4266
PID6_INTEGRAL_TERM F_32 1079 PID6_INTEGRAL_VALUE U_16 4202		PID6_DERIVATIVE_VALUE	U_16	4218
PID6_INTEGRAL_VALUE U_16 4202		PID6_ERROR_SUM	F_32	1067
		PID6_INTEGRAL_TERM	F_32	1079
PID6_OUTPUT U_16 4130		PID6_INTEGRAL_VALUE	U_16	4202
		PID6_OUTPUT	U_16	4130

Function	Register Name	Туре	Reg.
	PID6_PROPORTIONAL_BAND	U_16	4186
	PID6_SPAN	S_32	439
Result	RESULT	S_32	7
	RESULT_PROCESSED	S_32	257
	RESULT_RAW	S_32	281
	RESULT_SCALED	S_32	305
Result Setup	AUTO_ZERO_RESULT	S_16	4133
	AVERAGING_SAMPLES_RESULT	U_8	8309
	AVERAGING_WINDOW_RESULT	U_16	4293
	AZ_APERTURE_BAND_RESULT	U_16	4335
	AZ_CAPTURE_BAND_RESULT	U_8	8321
	AZ_MOTION_BAND_RESULT	U_8	8333
	DATA_SOURCE_RESULT	U_16	4450
	DISPLAY_FORMAT_RESULT	O_8	8367
	OFFSET_RESULT	S_32	357
	RESULT_TEXT	L_8_T	16391
	SCALE_FACTOR_RESULT	F_32	1097
	TEXT_CHARACTER_RESULT	U_8	8393
Serial	SERIAL_PORT_NO	U_8_R	8219
Serial Modbus Master	CRC_ERROR	B_5	8464
	DATA_ERROR	B_6	8464
	MESSAGE_COMPLETE	B_7	8464
	MESSAGE_TIMEOUT	B_4	8464
	MODBUS_MASTER_FLAGS	U_8_R	8464
	POLL_TIME	U_8	8462
	RESPONSE_TIME	U_8	8463
Serial Port 1	BAUDRATE1	U_8	8207
	RECEIVE_BUFFER1	U_8	12289
	RECEIVE_COUNT1	U_8	8454
	RECEIVE_FLAGS1	U_8	8234
	RECEIVE_READY1	B_0	8234
	RECEIVE_RESULT1	S_32	349
	SERIAL_ADDRESS1	U_8	8211
	SERIAL_MODE1	U_8	8215
	SERIAL_POINTER1	U_8	8458
	STRING_CHARACTER1	U_8	8226
	STRING_LENGTH1	U_8	8230
Serial Port 2	BAUDRATE2	U_8	8208
	RECEIVE_BUFFER2	U_8	12545
	RECEIVE_COUNT2	U_8	8455
	RECEIVE_FLAGS2	U_8	8235
	RECEIVE_READY2	B_0	8235
	NECEIVE_NEAD12	_	
	RECEIVE_RESULT2	S_32	351
	_		

Function	Register Name	Туре	Reg.
	SERIAL_POINTER2	U_8	8459
	STRING_CHARACTER2	U_8	8227
	STRING_LENGTH2	U_8	8231
Serial Port 3	BAUDRATE3	U_8	8209
	RECEIVE_BUFFER3	U_8	12801
	RECEIVE_COUNT3	U_8	8456
	RECEIVE_FLAGS3	U_8	8236
	RECEIVE_READY3	B_0	8236
	RECEIVE_RESULT3	S_32	353
	SERIAL_ADDRESS3	U_8	8213
	SERIAL_MODE3	U_8	8217
	SERIAL_POINTER3	U_8	8460
	STRING_CHARACTER3	U_8	8228
	STRING_LENGTH3	U_8	8232
Setpoints	SETPOINT_LATCH_FLAGS	U_16	4100
	SETPOINT_STATUS_FLAGS	U_16_R	4097
	SP_POWERON_INHIBIT_FLAGS	U_16	4102
	TRIGGER_STATUS	U_16_R	4098
Setpoint 1	SETPOINT1	S_32	111
	SP1	B_0	239
	SP1_REMOTE	B_8	239
	SP1_STATUS	B_0_R	4097
	SP1_TRIGGER	U_8	8293
	TRIGGER1	B_0_R	4098
Setpoint 1 Setup	SP1_BREAK_DELAY	U_16	4213
	SP1_HYST	U_16	4181
	SP1_MAKE_DELAY	U_16	4197
	SP1_DATA_SOURCE	U_16	4401
	PID1_ANTI_RESET_WINDUP	U_16	4245
	PID1_CYCLE_TIME	U_16	4261
	PID1_ERROR_SUM	F_32	1057
	PID1_INTEGRAL_TERM	F_32	1069
	SP1_RESET_VALUE	S_32	429
	SP1_DELAY_TYPE	U_8	8277
	SP1_TRACKING	U_8	8261
	SP1_RESET_DESTINATION	U_16	4229
	SP1_CONTROL	O_8	8245
	POWERON_INHIBIT_SP1	B_0	4102
	RLY1_DE_ENERGISE	B_0	4101
	SP1_LATCH	B_0	4100
	SETPOINT1_TEXT	L_8_T	16495
Setpoint 2	SETPOINT2	S_32	113
	SP2	B_1	239
	SP2_REMOTE	B_9	239
	SP2_STATUS	B_1_R	4097
	SP2_TRIGGER	U_8	8294

Function	Register Name	Туре	Reg.
	TRIGGER2	B_1_R	4098
Setpoint 2 Setup	PID2_ANTI_RESET_WINDUP	U_16	4246
	PID2_CYCLE_TIME	U_16	4262
	PID2_ERROR_SUM	F_32	1059
	PID2_INTEGRAL_TERM	F_32	1071
	POWERON_INHIBIT_SP2	B_1	4102
	RLY2_DE_ENERGISE	B_1	4101
	SETPOINT2_TEXT	L_8_T	16497
	SP2_BREAK_DELAY	U_16	4214
	SP2_CONTROL	O_8	8246
	SP2_DATA_SOURCE	U_16	4402
	SP2_DELAY_TYPE	U_8	8278
	SP2_HYST	U_16	4182
	SP2_LATCH	B_1	4100
	SP2_MAKE_DELAY	U_16	4198
	SP2_RESET_DESTINATION	U_16	4230
	SP2_RESET_VALUE	S_32	431
	SP2_TRACKING	U_8	8262
Setpoint 3	SETPOINT3	S_32	115
	SP3	B_2	239
	SP3_REMOTE	B_10	239
	SP3_STATUS	B_2_R	4097
	SP3_TRIGGER	U_8	8295
	TRIGGER3	B_2_R	4098
Setpoint 3	PID3_ANTI_RESET_WINDUP	U_16	4247
	PID3_CYCLE_TIME	U_16	4263
	PID3_ERROR_SUM	F_32	1061
	PID3_INTEGRAL_TERM	F_32	1073
	POWERON_INHIBIT_SP3	B_2	4102
	RLY3_DE_ENERGISE	B_2	4101
	SETPOINT3_TEXT	_ L_8_T	16499
	SP3_BREAK_DELAY	U_16	4215
	SP3_CONTROL	O_8	8247
	SP3_DATA_SOURCE	U_16	4403
	SP3_DELAY_TYPE	U_8	8279
	SP3_HYST	U_16	4183
	SP3_LATCH	B_2	4100
	SP3_MAKE_DELAY	U_16	4199
	SP3_RESET_DESTINATION	U_16	4231
	SP3_RESET_VALUE	S_32	433
	SP3_TRACKING	U_8	8263
Setpoint 4	SETPOINT4	S_32	117
	SP4	B_3	239
	SP4_REMOTE	B_11	239
		_	-
	SP4_STATUS	B_3_R	4097

Function	Register Name	Туре	Reg.
	TRIGGER4	B_3_R	4098
Setpoint 4 Setup	PID4_ANTI_RESET_WINDUP	U_16	4248
	PID4_CYCLE_TIME	U_16	4264
	PID4_ERROR_SUM	F_32	1063
	PID4_INTEGRAL_TERM	F_32	1075
	POWERON_INHIBIT_SP4	B_3	4102
	RLY4_DE_ENERGISE	B_3	4101
	SETPOINT4_TEXT	L_8_T	16501
	SP4_BREAK_DELAY	U_16	4216
	SP4_CONTROL	O_8	8248
	SP4_DATA_SOURCE	U_16	4404
	SP4_DELAY_TYPE	U_8	8280
	SP4_HYST	U_16	4184
	SP4_LATCH	B_3	4100
	SP4_MAKE_DELAY	U_16	4200
	SP4_RESET_DESTINATION	U_16	4232
	SP4_RESET_VALUE	S_32	435
	SP4_TRACKING	U_8	8264
Setpoint 5	SETPOINT5	S_32	119
	SP5	B_4	239
	SP5_REMOTE	B_12	239
	SP5_STATUS	B_4_R	4097
	SP5_TRIGGER	U_8	8297
	TRIGGER5	B_4_R	4098
Setpoint 5 Setup	PID5_ANTI_RESET_WINDUP	U_16	4249
	PID5_CYCLE_TIME	U_16	4265
	PID5_ERROR_SUM	F_32	1065
	PID5_INTEGRAL_TERM	F_32	1077
	POWERON_INHIBIT_SP5	B_4	4102
	RLY5_DE_ENERGISE	B_4	4101
	SETPOINT5_TEXT	L_8_T	16503
	SP5_BREAK_DELAY	U_16	4217
	SP5_CONTROL	O_8	8249
	SP5_DATA_SOURCE	U_16	4405
	SP5_DELAY_TYPE	U_8	8281
	SP5_HYST	U_16	4185
	SP5_LATCH	B_4	4100
	SP5_MAKE_DELAY	U_16	4201
	SP5_RESET_DESTINATION	U_16	4233
	SP5_RESET_VALUE	S_32	4233
	SP5_TRACKING	U_8	8265
Setpoint 6	SETPOINT6	S_32	121
	SP6	_ В_5	239
	SP6_REMOTE	B_13	239
	SP6_STATUS	B_5_R	4097
	SP6_TRIGGER	U_8	8298
	SI U_ITIIQUEN	0_0	0230

Function	Register Name	Туре	Reg.
	TRIGGER6	B_5_R	4098
Setpoint 6 Setup	PID6_ANTI_RESET_WINDUP	U_16	4250
	PID6_CYCLE_TIME	U_16	4266
	PID6_ERROR_SUM	F_32	1067
	PID6_INTEGRAL_TERM	F_32	1079
	POWERON_INHIBIT_SP6	B_5	4102
	RLY6_DE_ENERGISE	B_5	4101
	SETPOINT6_TEXT	L_8_T	16505
	SP6_BREAK_DELAY	U_16	4218
	SP6_CONTROL	O_8	8250
	SP6_DATA_SOURCE	U_16	4406
	SP6_DELAY_TYPE	U_8	8282
	SP6_HYST	U_16	4186
	SP6_LATCH	B_5	4100
	SP6_MAKE_DELAY	U_16	4202
	SP6_RESET_DESTINATION	U_16	4234
	SP6_RESET_VALUE	S_32	439
	SP6_TRACKING	U_8	8266
Smart Module Setup Read Only	SMART_ID	U_8_R	8422
	SMART_VERSION	U_8_R	8433
Smart Module Setup	SMART_CAL1	F_32	1123
	SMART_CAL2	F_32	1125
	SMART_CAL3	F_32	1127
	SMART_CAL4	F_32	1129
	SMART_RESET_OFFSET1	S_32	465
	SMART_RESET_OFFSET2	S_32	467
	SMART_SETUP1	O_8	8423
	SMART_SETUP2	O_8	8424
	SMART_SETUP3	0_8	8425
Smart Module	SMART_RESULT1	S_32	329
	SMART_RESULT2	S_32	331
	SMART_RESULT3	S_32	333
	SMART_RESULT4	S_32	335
	SMART_RESULT5	S_32	337
	SMART_RESULT6	S_32	339
	SMART_RESULT7	S_32	341
Status	ALARM_STATUS	U_32	239
	ANNUNCIATORS	U_16	4110
	EEPROM_MEMORY_SIZE	U_16_R	4437
	ERROR_STATUS	U_8	8435
	LED1	B_5	4110
	LED2	B_4	4110
	LED3	B_3	4110
	LED4	B_2	4110
	LED5	B_1	4110

Function	Register Name	Туре	Reg.
	LIGHT_BAR	U_8	8436
	LIGHT_BAR1	B_0	8436
	LIGHT_BAR2	B_1	8436
	LIGHT_BAR3	B_2	8436
	LIGHT_BAR4	B_3	8436
	LIGHT_BAR5	B_4	8436
	LIGHT_BAR6	B_5	8436
	LIGHT_REMOTE	B_7	8436
	RELAY_DE_ENERGISE_FLAGS	U_16	4101
	RELAY_STATUS	U_16	4099
	RELAY1	B_0	4099
	RELAY2	B_1	4099
	RELAY3	B_2	4099
	RELAY4	B_3	4099
	RELAY5	B_4	4099
	RELAY6	B_5	4099
	REMOTE_LED1	B_13	4110
	REMOTE_LED2	B_12	4110
	REMOTE_LED3	B_11	4110
	REMOTE_LED4	B_10	4110
	REMOTE_LED5	B_9	4110
	REMOTE_LED6	B_8	4110
	SETPOINT_STATUS_FLAGS	U_16_R	4097
	SP1_STATUS	B_0_R	4097
	SP2_STATUS	B_1_R	4097
	SP3_STATUS	B_2_R	4097
	SP4_STATUS	B_3_R	4097
	SP5_STATUS	B_4_R	4097
	SP6_STATUS	B_5_R	4097
	STATE	U_16	4109
	TREND_DOWN	B_7	239
	TREND_UP	B_6	239
	VIEW_POINTER	U_8	8220
Status Rear Pins	CAPTURE_PIN	B_2_R	4108
	COUNT2_DIRECTION	B_7_R	4108
	COUNT2_INPUT	B_6_R	4108
	D1	B_3_R	4108
	D2	B_4_R	4108
	D3	B_5_R	4108
	DIGITAL_IO	U_16	4108
	HOLD_PIN	B_0_R	4108
	LOCK_PIN	B_1_R	4108
	MUX0	B_8_R	4108
	MUX1	B_9_R	4108
Status Switches	DOWN_BUTTON	B_1	247
	F1_BUTTON	B_5	247
	F2_BUTTON	B_6	247
	F3_BUTTON	B_7	247

Function	Register Name	Туре	Reg.
	LOCK_DOWN_SWITCH	B_4	247
	LOCK_UP_SWITCH	B_3	247
	PROG_BUTTON	B_0	247
	REMOTE_SWITCH	B_15	247
	SWITCHES	U_32	247
	UP_BUTTON	B_2	247
Timers	SHORT_TIMER1	U_16	4111
	SHORT_TIMER2	U_16	4112
	SHORT_TIMER3	U_16	4113
	SHORT_TIMER4	U_16	4114
	TIMER1	U_32	143
	TIMER2	U_32	145
	TIMER3	U_32	147
	TIMER4	U_32	149
	i livien4	0_32	149
Total 1	CUTOFF1	S_16	4325
	DATA_SOURCE_TOTAL1	U_16	4391
	DISPLAY_FORMAT_TOTAL1	O_8	8376
	INPUT_RATE1	U_16	4305
	K_FACTOR1	S_16	4315
	RATE_TOTALIZER1	U_8	8345
	TEXT_CHARACTER_TOTAL1	U_8	8402
	TOTAL1	S_32	37
	TOTAL1_TEXT	L_8_T	16421
Total 2	CUTOFF2	S_16	4326
	DATA_SOURCE_TOTAL2	U_16	4392
	DISPLAY_FORMAT_TOTAL2	O_8	8377
	INPUT_RATE2	U_16	4306
	K_FACTOR2	S_16	4316
	RATE_TOTALIZER2	U_8	8346
	TEXT_CHARACTER_TOTAL2	U_8	8403
	TOTAL2	S_32	39
	TOTAL2_TEXT	L_8_T	16423
Total 3	CUTOFF3	S_16	4327
rotal o	DATA_SOURCE_TOTAL3	U_16	4393
	DISPLAY_FORMAT_TOTAL3	O_16 O_8	8378
	INPUT_RATE3		
		U_16	4307
	K_FACTOR3	S_16	4317
	RATE_TOTALIZER3	U_8	8347
	TEXT_CHARACTER_TOTAL3	U_8	8404
	TOTALS	S_32	41
	TOTAL3_TEXT	L_8_T	16425
Total 4	CUTOFF4	S_16	4328
	DATA_SOURCE_TOTAL4	U_16	4394
	DISPLAY_FORMAT_TOTAL4	O_8	8379
	INPUT_RATE4	U_16	4308
	INFOI_DAIL4	0_10	4300

Function	Register Name	Туре	Reg.
	RATE_TOTALIZER4	U_8	8348
	TEXT_CHARACTER_TOTAL4	U_8	8405
	TOTAL4	S_32	43
	TOTAL4_TEXT	L_8_T	16427
Total 5	CUTOFF5	S_16	4329
	DATA_SOURCE_TOTAL5	U_16	4395
	DISPLAY_FORMAT_TOTAL5	O_8	8380
	INPUT_RATE5	U_16	4309
	K_FACTOR5	S_16	4319
	RATE_TOTALIZER5	U_8	8349
	TEXT_CHARACTER_TOTAL5	U_8	8406
	TOTAL5	S_32	45
	TOTAL5_TEXT	L_8_T	16429
Total 6	CUTOFF6	S_16	4330
	DATA_SOURCE_TOTAL6	U_16	4396
	DISPLAY_FORMAT_TOTAL6	O_8	8381
	INPUT_RATE6	U_16	4310
	K_FACTOR6	S_16	4320
	RATE_TOTALIZER6	U_8	8350
	TEXT_CHARACTER_TOTAL6	U_8	8407
	TOTAL6	S_32	47
	TOTAL6_TEXT	L_8_T	16431
User Memory 16 bit range	USER_MEMORY_1	S_16	5121
	to		to
	USER_MEMORY_1024	S_16	6144
User Memory 8 bit range	USER_MEMORY_BYTE_1	U_8	10241
	to		to
	USER_MEMORY_BYTE_2048	U_8	12288
User Text Memory	USER_TEXT1	L_30_T	16567
	to		to
	USER_TEXT64	L_30_T	16693
Jser Variables Bit Flags	GENERAL_PURPOSE_FLAGS	U_32	241
	GPF1	B_0	241
	to	to	
	GPF32	B_31	241
Jser Variables Floating Point	FLOAT_VARIABLE1	F_32	1025
	FLOAT_VARIABLE2	F_32	1027
	FLOAT_VARIABLE3	F_32	1029
	FLOAT_VARIABLE4	F_32	1031
	FLOAT_VARIABLE5	F_32	1033
	FLOAT_VARIABLE6	F_32	1035
	FLOAT_VARIABLE7	F_32	1037
	FLOAT_VARIABLE8	F_32	1039
	FLOAT_VARIABLE8 FLOAT_VARIABLE9	F_32 F_32	1039 1041

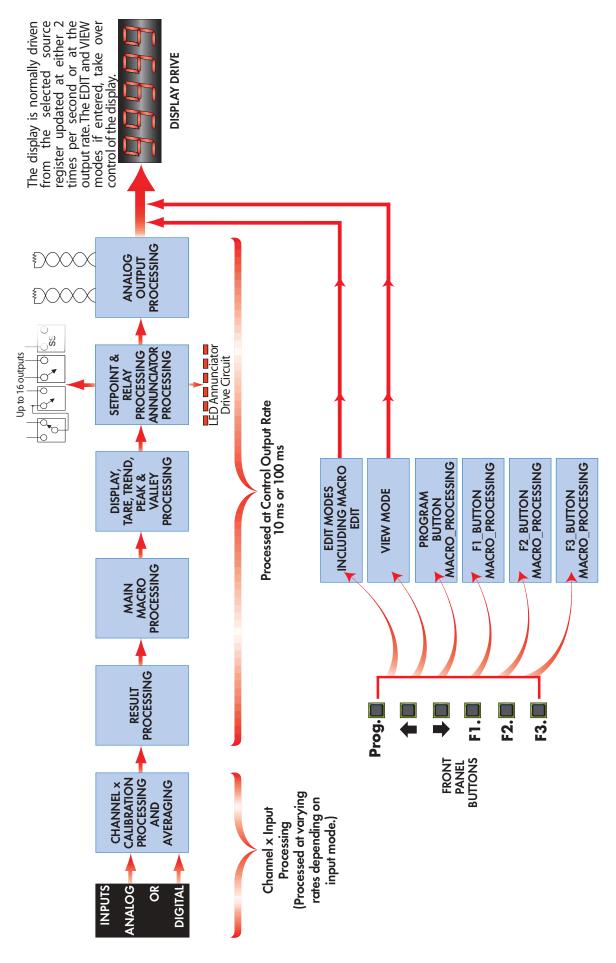
Function	Register Name	Туре	Reg.
	FLOAT_VARIABLE11	F_32	1045
	FLOAT_VARIABLE12	F_32	1047
	FLOAT_VARIABLE13	F_32	1049
	FLOAT_VARIABLE14	F_32	1051
	FLOAT_VARIABLE15	F_32	1053
	FLOAT_VARIABLE16	F_32	1055
	VARIABLE_A_FP	F_32	1121
User Variables Integer	INTEGER_VARIABLE1	S_32	155
	INTEGER_VARIABLE2	S_32	157
	INTEGER_VARIABLE3	S_32	159
	INTEGER_VARIABLE4	S_32	161
	INTEGER_VARIABLE5	S_32	163
	INTEGER_VARIABLE6	S_32	165
	INTEGER_VARIABLE7	S_32	167
	INTEGER_VARIABLE8	S_32	169
	INTEGER_VARIABLE9	S_32	171
	INTEGER_VARIABLE10	S_32	173
			175
	INTEGER_VARIABLE11	S_32	
	INTEGER_VARIABLE12	S_32	177
	INTEGER_VARIABLE13	S_32	179
	INTEGER_VARIABLE14	S_32	181
	INTEGER_VARIABLE15	S_32	183
	INTEGER_VARIABLE16	S_32	185
	INTEGER_VARIABLE17	S_32	187
	INTEGER_VARIABLE18	S_32	189
	INTEGER_VARIABLE19	S_32	191
	INTEGER_VARIABLE20	S_32	193
	VARIABLE_A_INT	S_32	479
Jser Variables Text	TEXT_VARIABLE1	L_30_T	16897
	TEXT_VARIABLE2	L_30_T	16899
	TEXT_VARIABLE3	L_30_T	16901
	TEXT_VARIABLE4	L_30_T	16903
	TEXT_VARIABLE5	L_30_T	16905
	TEXT_VARIABLE6	L_30_T	16907
	TEXT_VARIABLE7	L_30_T	16909
	TEXT_VARIABLE8	L_30_T	16911
Miscalleneous	CPU_LOADING	U_8_R	8434
	INC_DEC_DISPLAY	S_32	469
	MACRO_SIZE	U_16_R	4433
	MANUAL_LOADER_DISPLAY	S_32	471
	METER_TYPE	L_8_T	16565
	SPAN	S_32	461
	ZERO	S_32	463
Deprecated Names from Tiger 320	В	L_8_T	16385
Deprecated Names from Tiger 320		11.8	8207
Deprecated Names from Tiger 320	BAUDRATE Channel1_Text	U_8 L_8_T	8207 16393

Function	Register Name	Туре	Reg.
	Channel3_Text	L_8_T	16397
	Channel4_Text	L_8_T	16399
	DATA_SOURCE_PEAK_VALLEY	U_16	4374
	н	L_8_T	16441
	1	L_8_T	16443
	J	L_8_T	16421
	К	L_8_T	16423
	L	L_8_T	16495
	M	L_8_T	16497
	N	L_8_T	16499
	0	L_8_T	16501
	Over_Text	L_8_T	16539
	Р	L_8_T	16503
	PEAK	S_32	57
	Peak1_Text	L_8_T	16441
	Print_String	L_62_T	16543
	Q	L_8_T	16505
	R	L_8_T	16539
	RECEIVE_BUFFER	U_8	12289
	RECEIVE_COUNT	U_8	8454
	RECEIVE_FLAGS	U_8	8234
	RECEIVE_READY	B_0	8234
	RECEIVE_RESULT	S_32	349
	S	L_8_T	16541
	SERIAL_ADDRESS	U_8	8211
	SERIAL_POINTER	U_8	8458
	STRING_CHARACTER	U_8	8226
	STRING_CHARACTER1	U_8	8226
	STRING_LENGTH	U_8	8230
	Setpoint1_Text	L_8_T	16495
	Setpoint2_Text	L_8_T	16497
	Setpoint3_Text	L_8_T	16499
	Setpoint4_Text	L_8_T	16501
	Setpoint5_Text	L_8_T	16503
	Setpoint6_Text	L_8_T	16505
	Т	L_8_T	16393
	Total1_Text	L_8_T	16421
	Total2_Text	L_8_T	16423
	U	L_8_T	16395
	Under_Text	L_8_T	16541
	V	L_8_T	16397
	VALLEY	S_32	59
	Valley1_Text	L_8_T	16443
	VARIABLE1	S_32	155
	VARIABLE2	S_32	157
	VARIABLE3	S_32	159
	VARIABLE4	S_32	161
	VARIABLE5	S_32	163
	VARIABLE6	S_32	165

Function	Register Name	Type	Reg.
	VARIABLE7	S_32	167
	VARIABLE8	S_32	169
	VARIABLE9	S_32	171
	VARIABLE10	S_32	173
	VARIABLE11	F_32	1025
	VARIABLE12	F_32	1027
	VARIABLE13	F_32	1029
	VARIABLE14	F_32	1031
	VARIABLE15	F_32	1033
	VARIABLE16	F_32	1035
	VARIABLE17	F_32	1037
	VARIABLE18	F_32	1039
	W	L_8_T	16399
	X	L_62_T	16543



AND OUTPUT PROCESSING



Notes:

Notes:		

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