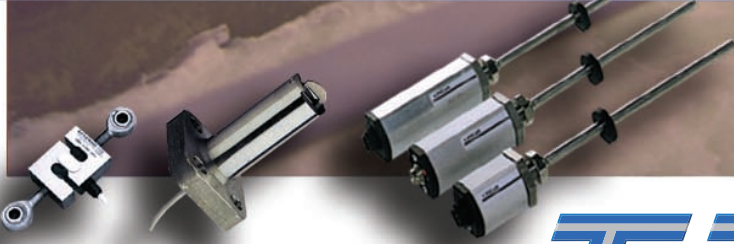


Process Measurement



LINEAR POSITION FLOW & TOTAL PRESSURE LOAD TEMPERATURE PULSE / FREQUENCY



TEXMATE

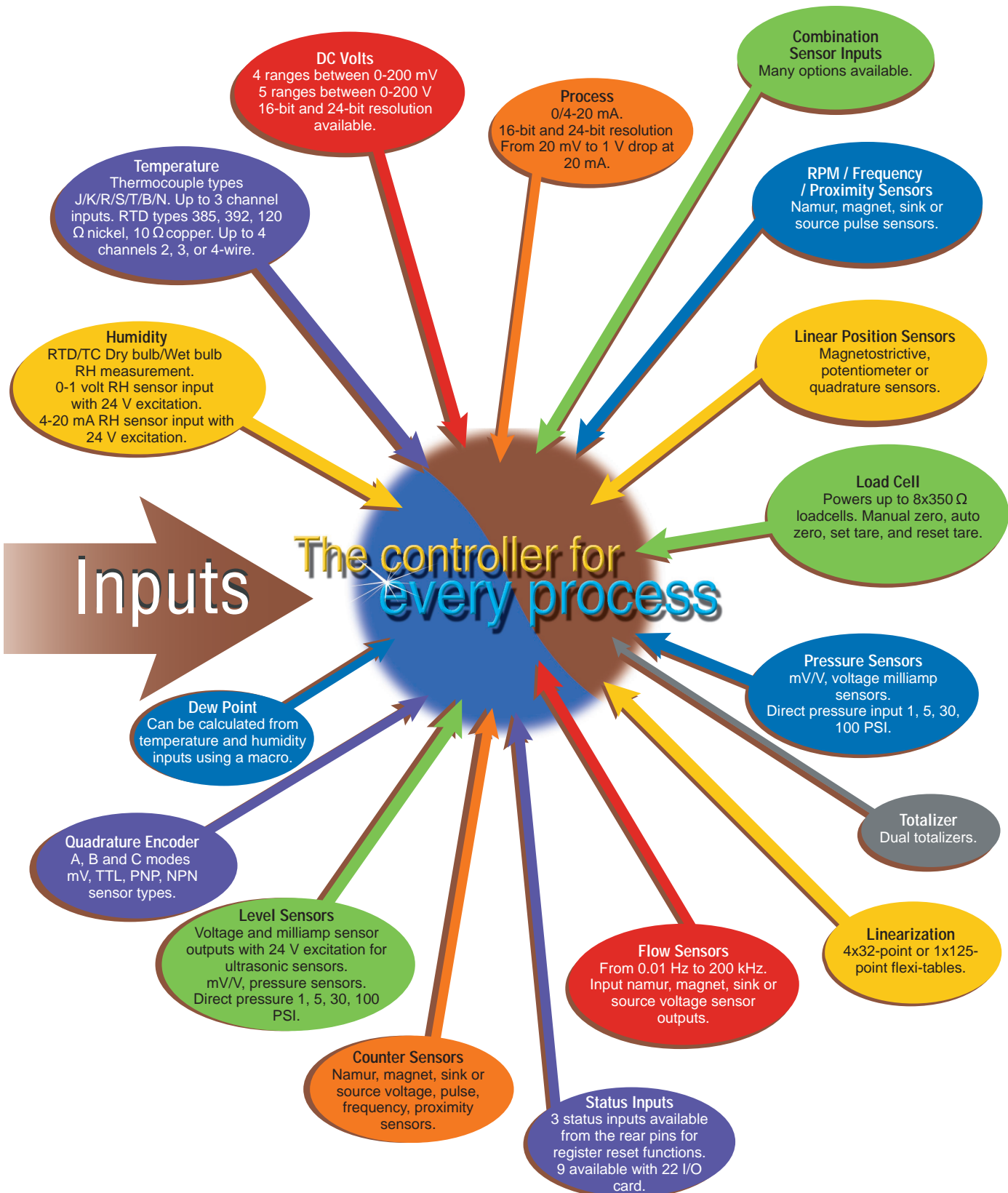
Process Measurement & Control for Industry

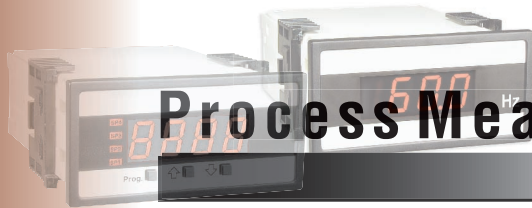
Reduce the cost of your process measurement and control applications.

Use the Texmate range of digital displays, bargraph displays, digital meter relays for your process control applications. For advanced process and automation applications use a Tiger 320 Series controller.

There are many input signal conditioners including 4-channel combinations to suit any application.

Outputs including relays, SSRs, analog and serial are available to suit your control applications. Status / logic inputs for reset and control applications, plus the optional macro programmability for instructive text messaging and advanced automation and control applications.





Process Measurement & Control





The Texmate family of digital displays, digital meter relays, intelligent controllers and transducers is designed to cover all your Process Measurement needs.

With an array of innovative features and display options you need look no further than Texmate.

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4-20 mA Loop Powered Meters

	Model	Description	Digits	Case Size
	SD-50X	LCD display, 1/8 DIN, ultra short depth Dip switch selectable °C, °F or dummy zero 3.9 V loop drop	6-digit	96x48 mm
	SP-31B	1/16 DIN, short depth meter with 31 segment red LED display Quick, easy mounting into any panel thickness Direct flush mount into mosaic panels Max 3.9 V loop drop Available vertical or horizontal		96x24 mm
	CM-35XT	LCD display, process 4-20 mA, slim bezel case 6.5 V loop drop Fully user scalable to directly read in any engineering unit Header programmable decimals trailing '0' digit or °C and °F descriptors Reading hold	3.5-digit	30x70 mm
	CM-35XTL	LCD display, less than 1 V DC loop drop Optional push-on terminal connector, CN-PUSH/CM or PCB edge connector, CN-L10	3.5-digit	30x70 mm
	DVM-5/CL	The world's smallest loop powered LED meter Max 8 V DC loop drop Factory scalable to directly read in any engineering unit	3.5-digit	96x48 mm
	SD-60X SD-802X	13 mm, 7-segment LCD display 7x5 dot matrix 5.5 mm positive, reflective LCD displays	6-digit 2x8-digit	96x48 mm 96x48 mm



SD-60X


Combine control with indication functions.

- Front panel calibration
- Dual totalizers with setpoint reset
- Square root extraction
- One setpoint with 7 timer modes including hysteresis, deviation, latch and reset functions.
- One optional SSR output that can be assigned to the input or totalizer
- Smart filtering provides stable and fast response readings.
- 3.9 V loop drop (6.2 V if SSR is installed)
- 1/8 DIN 96x48x13 mm case









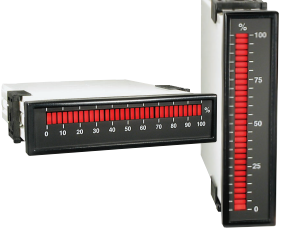




SD-802X

Display Only Meters

DC Volts	Model	Description	Digits	Case Size
	DU-35	DCV measuring, 2/20/200 V DC	3.5-digit.	96x48 mm
	DU-35mV	Measures DCmV, 50/100/200 mV	3.5-digit.	96x48 mm
	DU-45	Measures DCV, 2/20/200 V	4.5-digit.	96x48 mm
	DU-45mV	Measures DC mV, 50/100/200 mV	4.5-digit.	96x48 mm
Process mA	DU-35CL	Process 4-20 mA input (100.0).	3.5-digit.	96x48 mm
	DU-35CLE	Process 4-20 mA w/24 VDC excitation (100.0)	3.5-digit.	96x48 mm
	DU-45CL	Process 4-20 mA input (100.0)	4.5-digit.	96x48 mm
Pressure	DU-35P	Measures 2/5/10/20 mV/V	3.5-digit.	96x48 mm
Temperature	DU-35J/K	J/K thermocouple in °F or °C	3.5-digit.	96x48 mm
	DU-35RTD	100 (385 type) in °F or °C	3.5-digit.	96x48 mm
Low Volt Powered	BN-35CL	Isolated 24 VDC power, 4-20 mA input (100.0)	3.5-digit.	96x24 mm
	BN-35I	Isolated 24 VDC power, 0.2.2/20/200 VDC	3.5-digit.	96x24 mm
	MU-35	Iso., 2/20/200 VDC, 5-36 VDC/12-24 VAC power	3.5-digit.	24x48 mm
	MU-35CL	Iso., 4-20 mA input, 5-36 VDC/12-24 VAC power	3.5-digit.	24x48 mm
	MU-35mV	50/100/200 mVDC, Iso., VDC or VAC power	3.5-digit.	24x48 mm

Lynx-Series Meters

Digital or Bargraph Display.
Analog Output and Relay Option with Specific Bargraph.

	Model	Input Ranges Available	Relays	Analog Output	Digits	Case Size	
	BX-35	 DC Volts Description ID01 DC-Volts 2/20/200 V/Custom w/24V DC Exc ID02 DC-Millivolt 20/50/100/200 mV DC w/24V DC Exc ID05 DC-Volts 2/20/200/Custom V DC w/Offset and 24 V Exc			3.5-digit.	96x24 mm 0.56"	
	BX-45				4.5-digit.	96x24 mm 0.56"	
	DX-35				3.5-digit.	96x48 mm 0.8"	
	DX-40		ID03 DC-Milliamp, 2/20/200mA DC w/24 V DC Exc IPO1 Process Loop 4-20 mA (0-100.00) IPO2 Process Loop 4-20 mA (0-100.00) w/24V DC Exc IPO3 Process Input 1-5 V DC (0-100.00) w/24 V DC Exc			LG 4-digit.	96x48 mm 0.8"
	DX-45				4.5-digit.	96x48 mm 0.56"	
	BX-B31H BX-B31V	 Temperature IT03 RTD, 100 Pt. 2/3/4-wire (-200 to 800 °C) IT06 Thermocouple J Type (0-1400 °F) IT08 Thermocouple J Type (0-760 °C) IT09 Thermocouple K Type (0-1260 °C)		2	31 Segment Bargraph	96x48 mm	
	FX-B101Q	 Pressure IS05 Pressure 20/2 mV/V, 5 V/10 V Exc 4-wire IS06 Pressure Ext Exc 20/2 mV/V 4-wire  Pressure Direct		4-20 mA or 0-10 V	101 Segment Bargraph	144X36 mm	

For low cost Non-DIN Case, see the UM Range on our website at: www.texmate.co.nz

Bargraph & 4-Digit Display Meter Relays



This versatile family of meters is designed to cover your Process application needs.

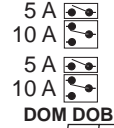
With an array of innovative features and display options, you need look no further than a Leopard for your next signal conditioner meter relay applications.

An Economical Smart Meter Relay

- The **quickest setup** you will find in a **panel meter**.
- **Built-in excitation** to power your sensors.
- Accepts **process, AC/DC volts, amps, pulse, frequency temperature & pressure inputs**.
- **Step-by-step prompts** makes configuration a breeze.
- **Field scalable analog output** without recalibration.
- **Cost competitive bargraph options**.
- **Ideal for alarm, process control, signal conditioning and transducer applications**.
- **24 V excitation** for process applications.
- **5 V or 10 V excitation** for load cell and pressure transducer applications.

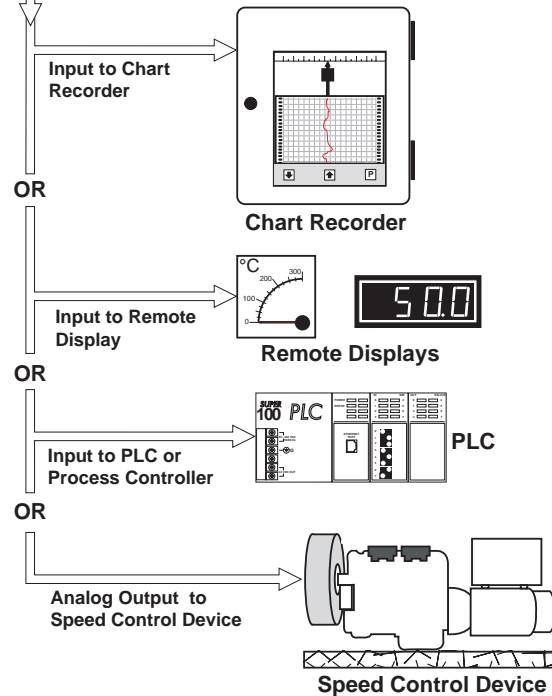
Relay

Up to 4 relay outputs available on DL, PL and FL models.
(2 x 5 amp form A and 2 x 10 amp form C)
Up to 3 relay outputs on BL and BL-B51
(3 x 5 amp form A or 1 x 10 amp form C).
Programmable delay-on-make and delay-on-break time on setpoints 1 and 2.



Analog Output

Isolated 0/4-20 mA or 0-10 V output scalable to any desired span within the full scale range of the controller.



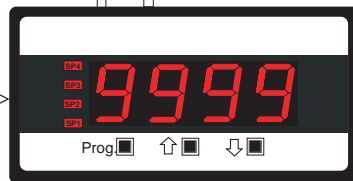
Power Supply

AC/DC
Power supply for voltages between 85-265 VAC/95-370 VDC or optional low voltage 18-48 VAC/10-72 VDC

Inputs

Will accept almost any process input signal including:

- DC Volts..... From mV to 200 V DC
- Frequency/Pulse... 1.5 Hz to 10 KHz
- RPM..... ·1 to 9999 RPM
- Temperature..... T/C J, K, R, T. RTD 385,392
- Pressure..... 2 or 20 mV/V. 5/10 V Exc.
- DirectPressure..... 0-1, 0-5, 0-30, 0-100 PSI



Input Ranges Available

DC Volts

- IDO1 DC-Volts 2/20/200 V/Custom w/24V DC Exc
- IDO2 DC-Millivolt 20/50/100/200 mV DC w/24V DC Exc

Process mA

- IPO7 Universal Process 2 V/5 V/10 V/20 V/200 V/2 mA/20 mA/Custom

Resistance

- IRO3 Linear Potentiometer, 3-wire, 1 KΩ min

Temperature

- IT10 Thermocouple, J/K/R/T, selectable °C/°F, 1°/0.1°
- IT15 RTD, 1000 Ω Pt. selectable 3/4-wire, °C/°F, 1°/0.1°, 385/392
- IT03 RTD, 100 Ω Pt. 2/3/4-wire, (-200-800 °C)
- IT04 RTD, 100 Ω Pt. 2/3/4-wire, (-200-1470 °C)

Pressure

- ISO2 Pressure 5/10 V DC Exc., 20/2 mV/V, 4/6-wire

Pressure Direct

- ???? 1, 5, 30, 100

Frequency/Pulse




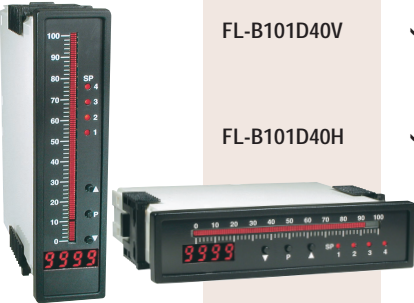

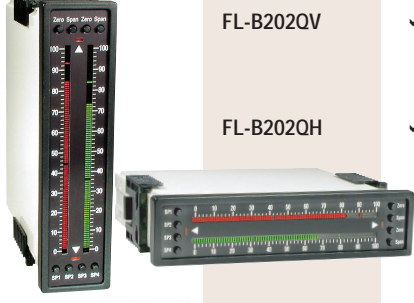


- IF05 Accepts Mag, Namur, Source or Sink sensors. 24 V Excitation

RPM

- IF07 RPM 2 mV to 25 V with Excitation

Leopard-Series Meters

Digital or Bargraph Display.
Analog Output and Relay Option with Specific Bargraph.

	Model	DC Volts	Process mA	Resistance	Temperature T/C-RTD	Frequency RPM/Pulse	Relays	Analog Output	Digits	Case Size
	BL-40 BL-40F BL-40H	✓	✓	✓	✓	✓	3 Max 3 Max	✓ ✓	4-digit. 4-digit. 0.56"	96x24mm 96x24mm
	DL-40 DL-40F DL-40H	✓	✓		✓		4 Max 4 Max	✓ ✓	4-digit. 4-digit. 0.56"	96x48mm 96x48mm
	DL-40LR DL-40FLR DL-40HLR	✓	✓		✓	✓	4 Max 4 Max	✓ ✓	4-digit. 4-digit.	96x48mm 96x48mm
	FL-B101D40V FL-B101D40H	✓ ✓	✓ ✓	✓ ✓			4 Max 4 Max	✓ ✓	4-digit. 101 Segment Bargraph 4 digit. 101 Segment Bargraph 0.31"	144x36mm 144x36mm
	FL-B101QV FL-B101QH	✓ ✓	✓ ✓	✓ ✓			4 Max 4 Max	✓ ✓	101 Segment Bargraph 101 Segment Bargraph	144x36mm 144x36mm
	FL-B202QV FL-B202QH	✓ ✓		✓ ✓			4 Max	✓	DUAL 101 Segment Bargraph DUAL 101 Segment Bargraph	144x36mm 144x36mm
	BL-B51D40	✓	✓	✓			3 Max	✓	4-digit 51 Segment Bargraph 0.31"	96x24mm
	PL-B101D40Q	✓	✓	✓			4 Max	✓	4-digit 101 Segment Bargraph 0.31"	144x24mm



The Texmate Tiger 320 Series

DI-50, DI-60A, DI-503, FI-B101D50, DI-50B51, DI-AN6, DI-802X, DI-50A5C.
Powerful, intelligent, modular signal processors and controllers with advanced software features for monitoring, measurement, control, and communication applications.

DI-50.
5-digit, 7-segment, 13 mm LED display.



DI-60A.
6-digit, 14-segment, 13 mm alphanumeric LED display.



DI-503.
3 x 5-digit, 7-segment, 8 mm LED display.



FI-B101D50.
5-digit, 7-segment, 8 mm LED display + 101-segment red, green or tri-color bargraph.

Multi-channel inputs in many combinations.0

- 4-channel analog / frequency input channels
*See pages 14 and 15 for input module selection.
- Smart, quick response averaging
- Full floating point maths
- Scaled pulse and frequency inputs
- Cross-channel math (A+B, A-B, AXB, A/B)
- Square root, inverse and log of input
- Polynomial calculations
- 4x32 point or 1x125 point linearization table
- Time integration functions
- Time and event based sequencing
- Counters

Status / Logic Inputs.

- 3-digit status inputs (standard) + 3 extra with selected input modules
- Null offset
- 9 digital status inputs with 22I/O card
- Set tare and reset tare for batching & weighing applications
- Manual zero with aperture window for weighing applications
- Auto zero maintenance with programmable capture band, rate of change, and aperture window for weighing applications

Dual Totalizers.

- Independently scalable
- Independently resettable

Analog Output 16-bit.

- 0/4-20 mA.
- 0-10 V

Timers.

Six super-smart setpoints.

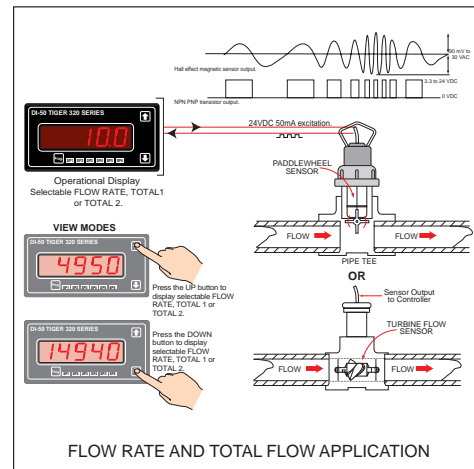
- 7 advanced timer functions (standard) on all 6-setpoints
- 6 relay or SSR outputs
- Dual PID control

Serial communication options.

- Data logging
- RS 232, RS 485
- Device Net
- Ethernet
- Controller to controller communication

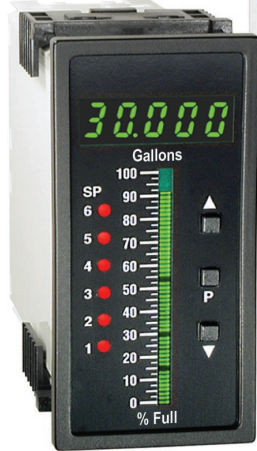
Display editing.

- Code blanking
- Scrolling text messaging



for Process Measurement & Control

DI-50B51.
5-digit, 7-segment, 8 mm LED display
+ 50-segment LED bargraph.



DI-50A6.
5-digit, 7-segment, 13 mm
LED display + 101-segment
red, green or tri-color
bargraph display.

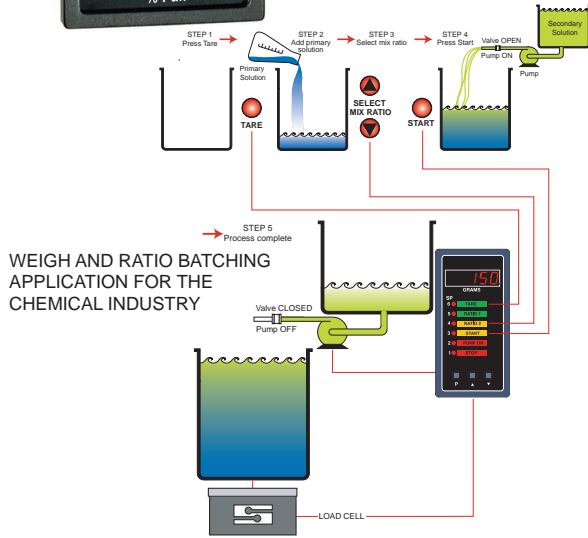
GI-50.
5-digit, 7-segment, 25 mm LED display with or without
101-segment red, green or tri-color bargraph.
LARGE DISPLAY.
3, 4, 5, or 6-digit, 7-segment, 100 mm remote LED display.



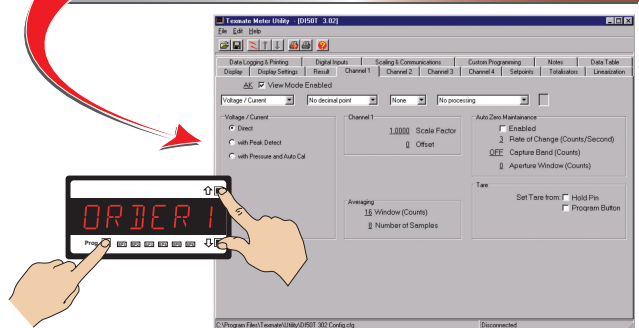
DI-802X.
2 x 8-digit, 7 x 5-dot, 5.5 mm,
high positive, reflective, LCD
display.



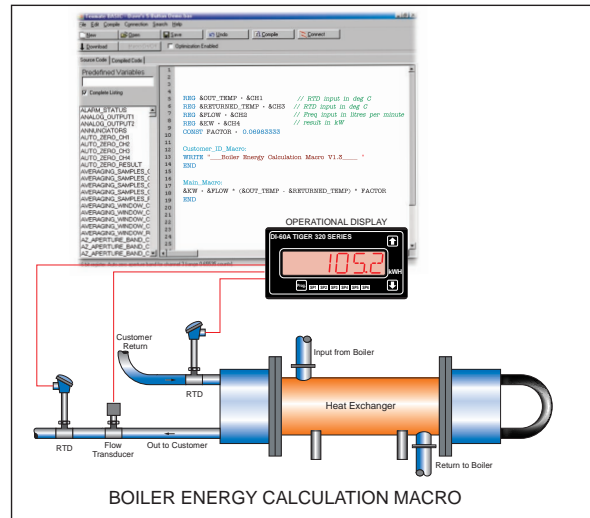
DI-60A5C.
5-digit, 14-segment, 13 mm
alphanumeric LED display.



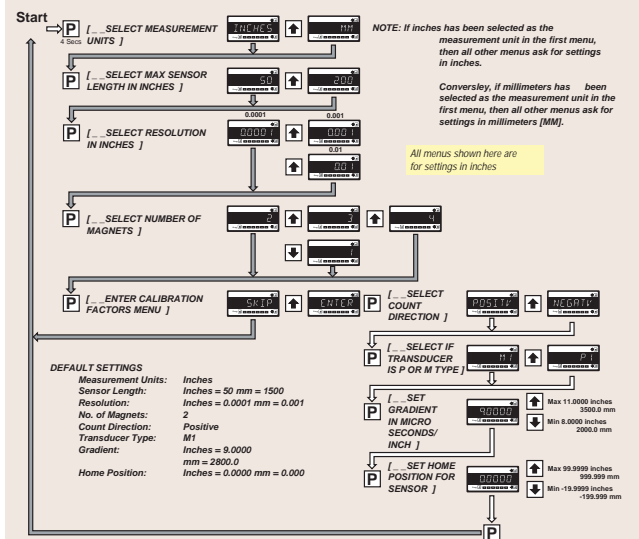
Configuration & Programming from front buttons or from a PC.



- Macro programming to perform unique functions
- Embedded software functions
- Instructive integral display
- Instructive front panel control for ease of operation



Magnetostrictive Sensor Macro



A macro program can be written to enable specific and easy setup for calibration procedures and control for sensor manufacturers and OEM applications. See above example for setup procedures for magnetostrictive linear transducer.

Power Supply

PS1.....85-265 VAC/ 95-370 VDC
PS2.....15-48 VAC/ 10-72 VDC

Excitation

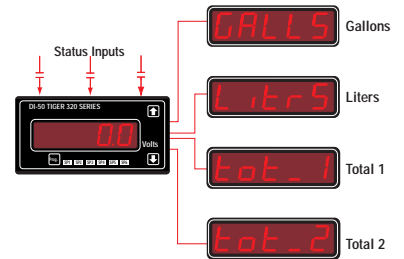
5 V, 130 mA (maximum) excitation output is provided by the controller.
24 V, 50 mA excitation is available on selected input modules.

Signal Averaging

Programmable input signal 'windowed' averaging provides fast display response time.
The signal is then averaged within the window for ultra-low noise.

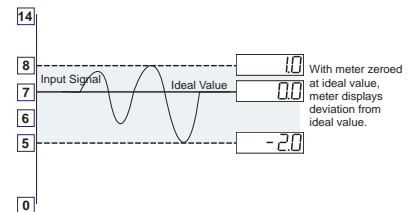
Multi-Display Options

From a 1, 2 or 3 display meter, 4 channels, total, total 2, peak and valley can be displayed using the UP and DOWN buttons or from a remote switched input.
From a single channel input, other channels can be viewed in other scaled engineering units.



Null Offset

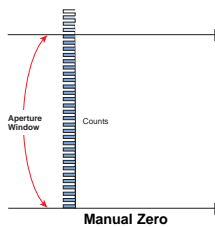
The display can be zeroed from the front panel to set the position of the ideal input signal value. This is known as the null offset. From the null offset any positive or negative deviation to the ideal signal value is indicated on the display.



Tare and Reset Tare

The remote switched inputs can be assigned for tare and tare reset (gross weight) control for batching applications. The operational display can be tared leaving Channel 1 input in gross weight mode for tare control in crane applications, and for batching applications.

Zero Maintenance

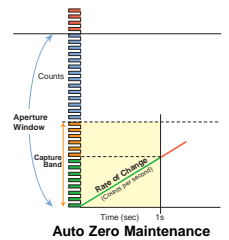


Manual zero with window limit.

The aperture window limits the amount of zero offset. This avoids overload of the load cell and support, and should be used in lifting applications requiring zero reset. Manual zero can be initiated from a remote switch.

Auto zero maintenance automatically maintains a zero display reading during warm up and low frequency drift of load cells using programmable capture band, rate of change, and aperture window settings.

If the inputs are within the rate of change and capture band settings, (shaded area) and within the aperture window, the meter will auto zero.

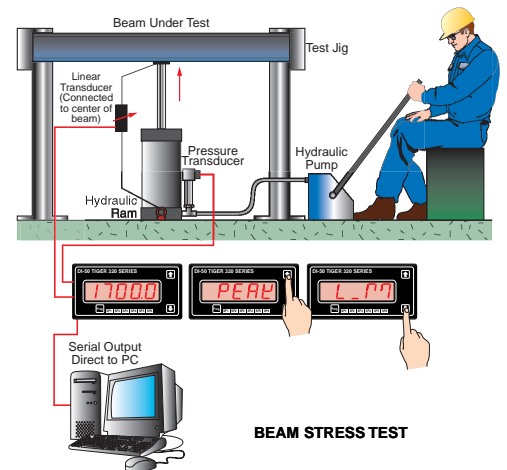
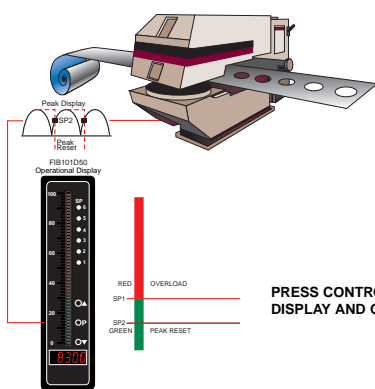


Linearization

The Tiger 320 Operating System has up to four user programmable linearization tables available. Standard 4 kilobyte E meters have one linearization table that can be increased to four with a memory upgrade to 32 kilobytes. Standard 32 kilobyte T meters have four linearization tables available for CT linearization.

Peak and Valley

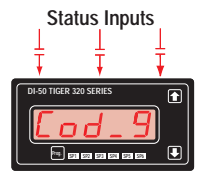
Peak and valley readings are retained in the meter. They can be viewed on the normal display or by pressing the UP or DOWN buttons. Peak and valley can be reset from the front panel or from a remote switch.
Smart input modules can capture and display peak and valley at 50, or 800 Hz.



Status/Logic Inputs

With the standard Tiger 320 Series controller, three status/logic inputs are available from remote switched inputs for null offset, set tare, reset tare, reset peak and valley, reset counters, reset totalizers, start/stop timers, channel viewing and many other register reset functions.

If a macro and the 22 I/O module is installed, 9 status/logic inputs are available.



Six Setpoints for Advanced Control and Relay Output Options

All Tiger 320 Series meters have six LED setpoint status indicators on the front panel. Setpoints can be activated for advanced control functions from any channel or register for relay control and register reset. If a macro and the 22 I/O module is installed, and up to 16x40 V 150 mA max. open collector outputs are available.

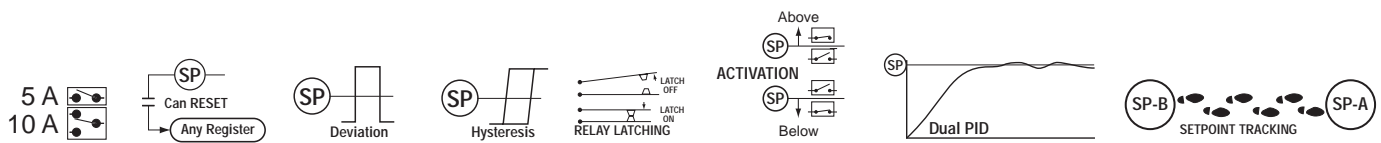
Relay Outputs

Six optional relay outputs are available. Order only the number of relays or 5 V SSR outputs you require for your application.

The relays can be individually programmed to operate from any channel or register, above or below a setpoint value, with or without start up inhibit, programmable hysteresis or deviation or as a timer. Dual PID control is available. Programmable LATCH ON or LATCH OFF (for fail-safe applications) on all relays with latch reset from a setpoint or a remote switched input.

Setpoint tracking is available.

Relay outputs are activated within 10 milliseconds from setpoint activation.

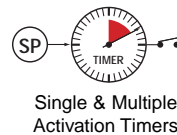


Timer Functions

The Tiger 320 series controller has super smart resident timers for process / time control applications.

The timer functions are a standard feature on all six setpoints.

The resident timers are programmable in 7 modes.



Single & Multiple Activation Timers

- NormalDelay On Make / Delay On Break
- 1-Shot ONDelay On Make / Min ON-Time
- 1-Shot OFFDelay On Break / Min OFF-Time
- Pulse ONDelay On Make / Max ON-Time
- Pulse OFFDelay On Break / Max OFF-Time
- Repeat ONON-Time / OFF-Time
- Repeat OFFOFF-Time / ON-Time

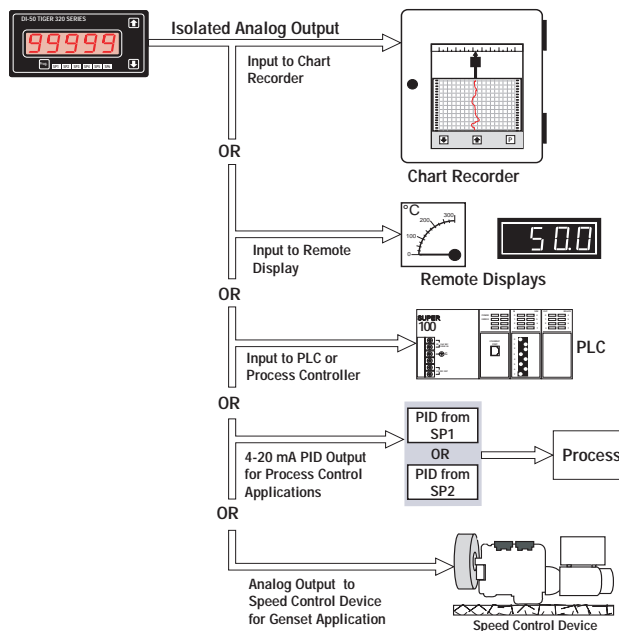
Dual Scalable Totalizers for Total and Sub-total

The controller stores totals and sub totals in separate non-volatile registers.

Totalizers are used to accumulate totals. The totals can be displayed and independently reset.

Isolated Analog Output

Optional isolated 16-bit, single 0—10V or 0/4-20 mA, or dual +10V—0—+10V is available. The output is scalable to any desired span within the full scale range of the controller in repeat or inverted mode for retransmission. 4-20 mA analog output is available from the proportional band of the PID register from setpoint 1 and 2.



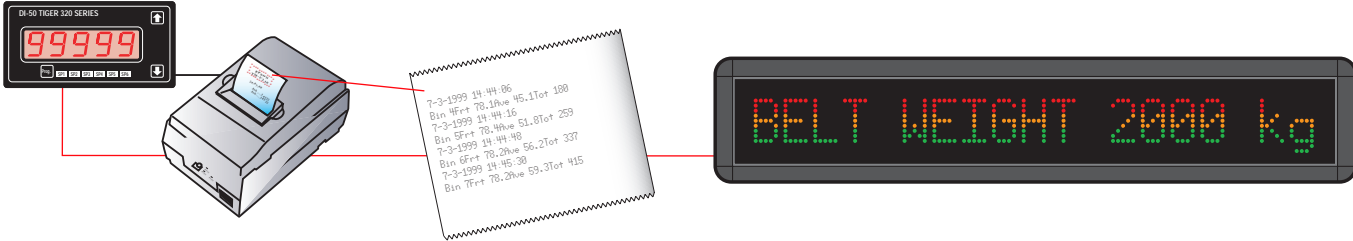
Serial Communication

Isolated RS-232, RS-485 in ASCII code format, Modbus (slave) external Ethernet available, or DeviceNet with an optional card. Meter to meter communication is available using an RS-485 serial connection.



Direct Serial Printer or Large Display Driver Output

The Tiger 320 Series controller can be directly connected to most serial printers. Activated from a setpoint, the program, button or from an external switch, the meter can print directly from selected registers the date / time, number, weight, peak, valley, average, total, differential, or result of a calculation, and more.



Real-time Clock Option

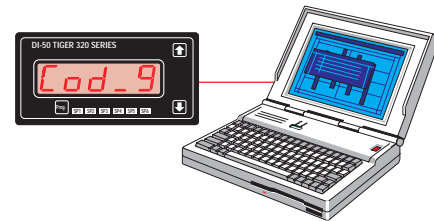
An optional resident real-time clock is available for time stamping in data logging and printing applications.



Data Logging

4000 samples can be logged within the meter. The data can be downloaded with date / time records to a computer using Windows Hyperterminal program.

A removable 4-128 megabyte Flash Card memory module is also available.



Texmate Configuration

The Tiger 320 Series controller is programmable from the front panel buttons or using the Texmate developed meter configuration utility software. The configuration utility program provides access to added features such as code blanking and display editing.

Code Blanking & Display Editing

Through the serial port, the controller can be programmed to blank out all or selected or non-required codes, as well as providing descriptive text messaging to suit a specific application. These features enable the controller to be easily configured and safely operated.

Code Blanking

Select only the codes you want to see. In the example screen, Calibration, Code 8, and Code 9 are checked, meaning they are not blanked and still open for reconfiguration.



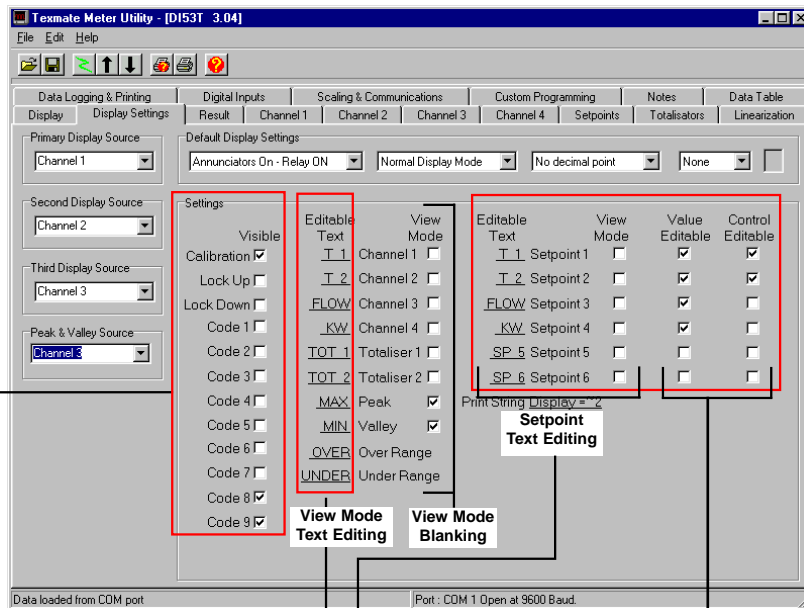
View Mode Text Editing

Edit display text to suit your application. Double-click underlined text to edit. In the example screen, the text in the Editable Text column has been modified to suit a particular application. Only the peak (MAX) and valley (MIN) readings are viewable in the View Mode.



Setpoint Text Editing

Setpoints 1-4 have been edited to read T1, T2, flow, and KW.



Setpoint Blanking

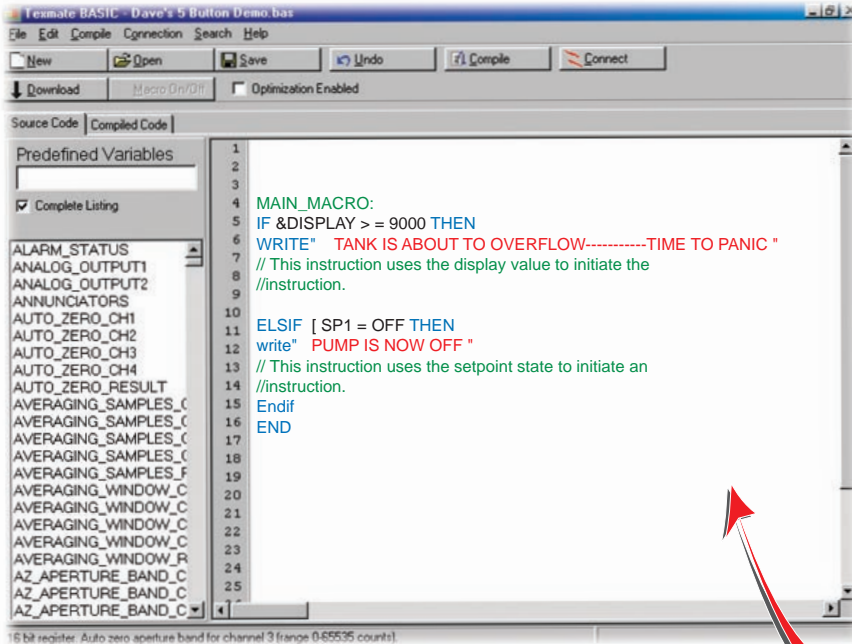
Select only the setpoints you want to see. In the example screen, with setpoints 5 and 6 in the Value Editable column clear, the setpoint value of setpoints 1 to 4 are still able to be adjusted. With setpoints 3 to 6 in the Control Editable column clear, the control settings of setpoints 1 and 2 can still be fully configured for timer modes.

Tiger 320 Macro Overview

The Tiger 320 Series of programmable meter controllers have been designed to incorporate the analog and digital functionality of an intelligent controller with the logic of a PLC.

Traditionally, the PLC approach is to build a working application entirely in some form of programming language. The approach used in the Tiger 320 Series of controllers is to build an application by selecting the pre-programmed functions of the controller and then adding small amounts of programmability and logic where needed.

The operating system of the Tiger 320 controller controls all the pre-programmed functions, handling the input, averaging, scaling, linearization, totalization and much more, as well as driving the display, timers, relays, analog and serial outputs. Once configured, these functions are executed by the operating system and form the basis of a control system.



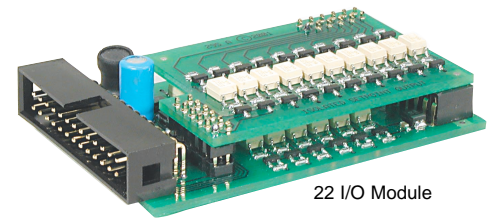
To form an advanced automation and control system you only need to write a small program that adds the extra logic required. We call this program a macro. A macro can be written specifically for your application and is used to initiate a sequence, reconfigure or disable some of the controller functions. With Texmate's 22 I/O plug-in module installed, a macro further expands the Tiger 320 operating system with additional status inputs and switched outputs.

Macro control is ideal for many OEM applications that require analog, digital, and timer functions with sophisticated mathematical and enhanced logic operations. The macro concept has major cost advantages for large or small sophisticated applications that require some degree of programmable logic control with display and front panel control.

Texmate Development System

Example showing text messaging macro from a display value and setpoint state.

Note: The SP1 value is adjustable by the operator. The IF & DISPLAY value is not adjustable by the operator.



Scrolling Text Messaging

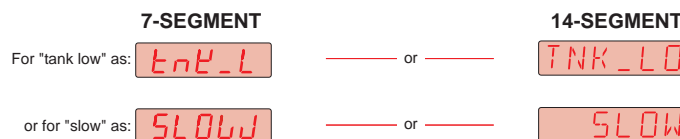
Scrolling text messaging is another bonus from running a macro. Any number of messages for detailed operator instructions, of up to 100 characters each, can be written into the macro during compilation for detailed operator instructions, alarm and control applications.

A scrolling text message can be written for OEMs and sensor manufacturers providing informative instructions for setup and calibration procedures.



Alphanumeric Displays

14-segment alphanumeric displays are Texmate's display choice for easy to read display text and scrolling text messaging.



Tiger 320 Series Input Modules

Category	Input	Order Code	Input Module Description
AC Current	Single	IA03 . . . . .	.AC-Milliamps Scaled RMS, 2/20/200 mA AC
		IA04 . . . . .	.AC-Amps Scaled RMS, 0-1 Amp AC (0-100.00)
		IA05 . . . . .	.AC-Amps Scaled RMS, 0-5 Amp AC (0-100.00)
		IA08 . . . . .	.AC-Milliamps True RMS, 2/20/200 mA AC
		IA09 . . . . .	.AC-Amps True RMS, 0-1 Amp AC (0-100.00)
		IA11 . . . . .	.AC-Amps True RMS, 0-5 Amp AC (0-100.00)
AC Frequency	Single	IF02 . . . . .	.Line Frequency, 50-500 VAC, 199.9 Hz, or optional 400 Hz
		IF06 . . . . .	.Line Frequency, 50-500 VAC
		IF09 . . . . .	.Frequency Input, Dual output Frequency/counter
	Dual	IDF2 . . . . .	.Dual Frequency
AC Voltage	Single	IA01 . . . . .	.AC-Volts Scaled RMS, 200/600 V AC
		IA02 . . . . .	.AC-Volts Scaled RMS, 200 mV/2 V/20 V AC
		IA06 . . . . .	.AC-Volts True RMS, 200/600 V AC
		IA07 . . . . .	.AC-Volts True RMS, 200 mV/2 V/20 V AC
		IA10 . . . . .	.AC-Millivolt, Scaled RMS, 100 mV AC
		IA12 . . . . .	.AC-Millivolt, True RMS, 100 mV AC
DC Current	Single	ID03 . . . . .	.DC-Milliamp, 2/20/200 mA DC w/24 V DC Exc
		ID04 . . . . .	.DC-Amps, 5 A DC
		ID09 . . . . .	.DC-Amps, 1 A DC
		IP07 . . . . .	.2/20 mA DC w/24 V DC Exc
	Dual	IDD3 . . . . .	.Dual Input DC-Milliamps, 2 mA DC
	Triple	ITP1 . . . . .	.Triple process loop 4-20 mA
	Quad	IQP1 . . . . .	.Quad process loop 4-20 mA
	DC Voltage	Single	ID01 . . . . .	.DC-Volts, 2/20/200 V/Custom w/24 V DC Exc
ID02 . . . . .			.DC-Millivolt, 20/50/100/200 mV DC w/24 V DC Exc
ID06 . . . . .			.DC-Volts 2/20/200/Custom V DC w/Ext.Decimal Select
ID08 . . . . .			.DC-Volts, 2/20/200/Custom V DC w/Ext.LIN Table Select
ID10 . . . . .			.DC Volts with Temperature Compensation
IP07 . . . . .			.2/20/200 mA DC w/24 V DC Exc
IP10 . . . . .			.Process + 3 Digital Inputs
ISD1 . . . . .			.Smart DC Volts, High Speed 16-bit, 1, 10, 50, 200, 400, 800 Hz update rates
ISD2 . . . . .			.Smart DC Volts, High Speed 16-bit, 1, 10, 60, 240, 480, 960 Hz update rates
ISD3 . . . . .			.Smart DC Volts, High Speed 16-bit, 1Hz to 800 Hz w/dual isolated SSRs
ISD4 . . . . .			.Smart DC Volts, High Speed 16-bit, 1Hz to 960 Hz w/dual isolated SSRs
ISD5 . . . . .			.Smart DC Volts, Hi Resolution & Accuracy 24-bit (1 million counts) 1-400 Hz
ISD6 . . . . .		.Smart DC Volts, Hi Resolution & Accuracy 24-bit (1 million counts) 1-480 Hz	
ISD7 . . . . .		.Smart DC Volts, Hi Resolution & Accuracy 24-bit 1-400 Hz w/dual isolated SSRs	
ISD8 . . . . .		.Smart DC Volts, Hi Resolution & Accuracy 24-bit 1-480 Hz w/dual isolated SSRs	
Dual		IDD1 . . . . .	.Dual Input, Volts DC/Volts DC, 2V DC
		IDD2 . . . . .	.Dual Input DC-Millivolts, 50 mV DC (100.00)
		IDD4 . . . . .	.Dual Input, Volts/millivolts 2 V/50 mV DC (100.00)
		IDD7 . . . . .	.Smart Dual Input DC Volts, 16-bit, 1 Hz to 20 Hz update (50 Hz rejection)
Triple		ITD1 . . . . .	.Triple DC Volts, 2 V DC
	ITD2 . . . . .	.Triple DC-Millivolts, 50 mV DC (100.00)	
Quad	IQD1 . . . . .	.Quad DC Volts, 2 V DC	
	IQD2 . . . . .	.Quad DC-Millivolts, 50 mV DC (100.00)	
Counter/Pulse	Single	IF10 . . . . .	.Namur magnetic sink.source sensors. 0-0.010 Hz to 500 KHz, 24 V Exc.
	Dual	IC02 . . . . .	.Counter (Quadrature)
Frequency	Single	IDC1 . . . . .	.Dual Input, Counter
		IF10 . . . . .	.Namur mV sink.source sensors. 0-0.010 Hz to 500 KHz, 24 V Exc.
	Dual	IC02 . . . . .	.Counter (Quadrature)
Counter/Pulse	Single	IF10 . . . . .	.Namur mV sink.source sensors. 0-0.010 Hz to 500 KHz, 24 V Exc.
		IC02 . . . . .	.Counter (Quadrature)
Frequency	Dual	IDF2 . . . . .	.Sink.source sensors. 0-0.010 Hz to 500 KHz, 24 V Exc.
		IDF2 . . . . .	.Sink.source sensors. 0-0.010 Hz to 500 KHz, 24 V Exc.

Tiger 320 Series Input Modules

Category	Input	Order Code	Input Module Description	
Linear	Single	IR03 . . . . .	.Resistive Linear Potentiometer, 3-wire 1 K Ω min
		ISR1 . . . . .	.Smart 24-bit, high resolution, 3-wire, 1 K Ω to 100 K Ω , 2.5 V Exc.
		IMS1 . . . . .	.Magnetostrictive with high speed setpoints. <i>(Note: Macro required)</i>
		ILO1 . . . . .	.LVDT includes transducer Exc.
	Dual	ISR3 . . . . .	.Smart 24-bit, high resolution, 3-wire, 1 K Ω to 100 K Ω , 2.5 V Exc.
Pressure	Single	ISO1 . . . . .	.2/20 mV/V sensors, 5-10 V Exc.
		ISO3 . . . . .	.Pressure 5/10 V DC Exc., 20/2 mV/V , 4- or 6-wire w/Autocal
		IDP2 . . . . .	.Direct pressure, differential or absolute, 1, 5, 30, 100 PSI.
	Dual	IDS2 . . . . .	.2/20 mV/V sensors, 5-10 V Exc.
			.Direct pressure, differential or absolute, 1, 5, 30, 100 PSI.	
Load Cell	Single	ISS1 . . . . .	.Smart Pressure/Load Cell. Standard Resolution 16-bit (50 Hz rejection)
		ISS2 . . . . .	.Smart Pressure/Load Cell. Standard Resolution 16-bit (60 Hz rejection)
		ISS3 . . . . .	.Smart Pressure/Load Cell. Hi Res & Accuracy 24-bit (50 Hz rejection)
		ISS4 . . . . .	.Smart Pressure/Load Cell. Hi Res & Accuracy 24-bit (60 Hz rejection)
	Dual	ISS5 . . . . .	.Dual Smart Pressure/Load Cell. Standard Resolution 16-bit (50 Hz rejection)
		ISS6 . . . . .	.Dual Smart Pressure/Load Cell. Standard Resolution 16-bit (60 Hz rejection)
	Quad		.Quad Smart Pressure/Load Cell. Standard Resolution 16-bit (50 Hz rejection)	
			.Quad Smart Pressure/Load Cell. Standard Resolution 16-bit (60 Hz rejection)	
			<i>All Load Cell smart modules, 5 V Exc., 120 mA</i>	
ORP	Single	IOR1 . . . . .	.Oxidation Reduction Potential (ORP)
pH	Single	IH01 . . . . .	.pH Indication w/ Manual Temperature Compensation
		IH02 . . . . .	.pH Indication w/ Automatic Temperature Compensation
Power	Single	IW01 . . . . .	.Single Phase Power (Watts, V, A, Hz, PF, Whr) 300 V/1 A , 600 V/1 A
		IW02 . . . . .	.Single Phase Power (Watts, V, A, Hz, PF, Whr) 300 V/5 A , 600 V/5 A
		IW03 . . . . .	.DC-Watts, 200 V DC/50 mV DC from Shunt (0-100.00)
Process	Single	IP06 . . . . .	.Process Loop, 4-20 mA (0-100.00) w/24 V DC Exc and Autocal
		IP07 . . . . .	.Universal Process 2 V/5 V/10 V/20 V/200 V/2 mA/20 mA/Custom
		IP09 . . . . .	.Process Loop, 4-20 mA (0-100.00) w/ External Lin Table select
		IDP1 . . . . .	.Dual Process Loop Input, 4-20 mA (0-100.00)
	Dual			
	Triple	ITP1 . . . . .	.Triple Process Loop, 4-20 mA (0-100.00)
	Quad	IQP1 . . . . .	.Quad Process Loop, 4-20 mA (0-100.00)
Prototype		IPT1 . . . . .	.Prototype Board for Custom Design
Resistance	Single	IR01 . . . . .	.Resistance, 2-, 3- , or 4-Wire, 200 Ω / 2 KΩ /20 K Ω
		ISR1 . . . . .	.Resistance, smart 24-bit, high resolution, 1 K Ω to 100 K Ω , 2.5 V Exc.
		IDR1 . . . . .	.Resistance Input, 0.2/ 2/20 K Ω
	Dual	ISR3 . . . . .	.Resistance, smart 24-bit, high resolution, 1 K Ω to 100 K Ω , 2.5 V Exc.
Temperature	Single	IT01 . . . . .	.Thermocouple Input, J/ K/R/S/T/B/N
		IT02 . . . . .	.RTD, 100 Ω Pt. 2-, 3- , or 4-wire
		IT12 . . . . .	.RTD, 120 Ω Nickel 2-, 3- , or 4-wire
		IT13 . . . . .	.RTD, 10 Ω Copper 2-, 3- , or 4-wire
		Dual	IDT1Dual Thermocouple Input J/K/R/T
			IDT2Dual RTD Input, 2- and 3-wire, 100 Ω Pt
			IST5Smart Dual RTD with 0.01" Resolution. 50 Hz.
		Triple	ITT1Triple Thermocouple
			ITT2Triple RTD Input, 2-wire, 100 Ω Pt
				.Triple smart RTD Input, 3-wire, 100 Ω Pt
			ITTCTriple RTD Input, 4-Wire, 100 Ω Pt
		Quad	IQT2Quad RTD Input, 2-Wire, 100 Ω Pt
		IQT4 . . . . .	.Quad RTD Input, 4-wire, 100 Ω Pt

Tiger 320 Series Input Modules

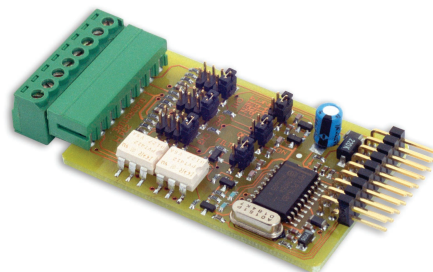
Category	Input	Order Code	Input Module Description	
Multi-input Combinations	Dual	IDD5 . . . . .	.DC Volts and Process 4-20 mA
		IDD6 . . . . .	.DC mV and Process 4-20 mA
		IDT3 . . . . .	.3-wire RTD / Volts 2 V DC
		IDT4 . . . . .	.Thermocouple / Volts 2 V DC
		IDT5 . . . . .	.K/R/S/T/J Thermocouple / DC-Millivolts, 50 mV DC
		. . . . .	.Smart Load Cell and Process 4-20 mA
		. . . . .	.Smart Load Cell / Thermocouple
		. . . . .	.Smart Load Cell / RTD.
		. . . . .	.Dual Pressure Direct / Differential / Absolute.
		IWO3 . . . . .	.DC-Watts 10 V/50 mV dc.
		Triple	ITT3Dual Thermocouple J/K/R/S/T/B/N and DCV 2 V
			ITT4Dual Thermocouple J/K/R/S/T/B/N and 4 to 20 mA
			ITT5Dual Thermocouple J/K/R/S/T/B/N and DC mV
			ITT6Thermocouple J/K/R/S/T/B/N and Dual DC mV
			ITT7Thermocouple J/K/R/S/T/B/N and Dual DC Volts
	ITT8 . . . . .		.Thermocouple J/K/R/S/T/B/N and Dual 4-20 mA
	ITT9 . . . . .		.Thermocouple J/K/R/S/T/B/N and DC Volt and DC mV
	ITTA . . . . .		.Thermocouple J/K/R/S/T/B/N and 4-20 mA and DC mV
	ITTB . . . . .		.Thermocouple J/K/R/S/T/B/N and 4-20 mA and DC Volt
	. . . . .		.Thermocouple / 4 to 20 mA / Frequency.
	. . . . .		.RTD/RTD / 4-20 mA.
	. . . . .		.RTD/RTD / DC-Volts.
	. . . . .		.RTD/RTD / Frequency.
	. . . . .		.Smart Load Cell/ Frequency / Counter.
	. . . . .		.Pressure Direct / Frequency / Counter.
	. . . . .	.Counter.	
	Quad	. . . . .	.RTD/VV / Frequency.

New input modules are constantly being developed to meet the expanding use of the Tiger 320 Series range of controllers.

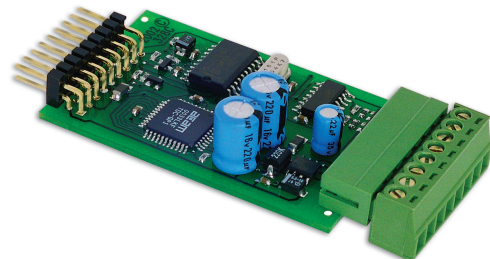
Texmate produce intelligent input modules that perform front-end pre-conditioning of multiple and sometimes complex input signals using an installed microprocessor and high resolution A/D converter. This opens up the potential for the most sophisticated sensors to be interfaced with the Tiger 320 Series operating system.

The microprocessor input module, coupled with the embedded functions and macro programmability of the Tiger 320 Series controller, enables many new possibilities for an instructive, user friendly and reliable control system especially suitable for OEM machinery applications.

Check with Texmate or your local distributor or view Texmate's website on line at: www.texmate.com



Quadrature Encoder Smart Input Module



Magnetostrictive Encoder Smart Input Module

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