

Instruction for using the Tiger meter/controller configuration utility



Communication Buffer: Indicates the amount of communication requests to be processed.

File menu

New

-Create new configuration.

Open -Opens a configuration.

Import -Add (partial) configuration file (i.e. compiled macro) to current configuration.

Save -Save configuration file.

Verbose Output File -Only recommended for debugging.

Communication menu

Connection...

-Change communication settings to connect to a similar meter.

Serial (COM-port) Choose Parameters: Device com5	•
Choose Parameters: Device com5	
Device com5	
Baudrate 9600 💌	
Parity None 💌	

Connect and Disconnect

Send -Send only changes to the meter.

Send All -Send complete configuration.

Meter menu

Change Meter Comm. Setting

Show Changed Registers -Registers sent on Send/Send Changes.

1. Select model being connected from the list. for example: "DI50TV3.06-08"





Adjust Timer Poll Interval for registers checked above.

Texmate Configuration Utility File Communication Meter Help 🖺 New 🏼 🎢 Open 🛛 🔚 Save Disconnect Send Send All Primary Display Source Default Display Setting Display Channel 1 ▼ 253 Annunciator Mode **Display Mode** Format Rounding Last Char **Display Settings** Annunciators On - Relay On ▼ Normal Display Mode ▼ X.XX ▼ None ▼ 2nd Display Source Channels Channel 3 -251 Settings Peak & Valley So Calibration Editable Editable View View Value Control Setpoints Visible Mode Text Mode Editable Editable Text Display 255 **Editable** SP_1 Channel 1 🔽 CH1 Setpoint 1 🔽 $\overline{\mathbf{v}}$ 1 Calibration 🔽 Totalizers Text $\overline{\mathbf{v}}$ 1 Channel 2 🔽 CH2 Setpoint 2 🔽 SP_2 Lock Up $\overline{\mathbf{v}}$ Linearization Channel 3 🔽 СНЗ $\overline{\mathbf{v}}$ ~ SP_3 Setpoint 3 🔽 Lock Down 🔽 Data Logging CH4 ~ Channel 4 🔽 1 Setpoint 4 🔽 SP_4 Code 1 ~ Digital IO Totalizer 1 🔽 TOT_1 Setpoint 5 🔽 $\overline{\mathbf{v}}$ $\overline{\mathbf{v}}$ Nax-~ Code 2 Analog Outputs TOT_2 Setpoint 6 🔽 $\mathbf{\nabla}$ ~ Min-Totalizer 2 🔽 Code 3 1 Notes V Peak V PEAK Code 4 Watch $\overline{\mathbf{v}}$ VALLEY ~ Valley Code 5 **Default settings are** Macro OVER 7 Over Range Code 6 all values checked. UNDER $\overline{\mathbf{v}}$ Under Range Code 7 Clear all checkboxes $\overline{\mathbf{v}}$ Code 8 Code blanking disabled 1 Select all checkboxes Code 9 **Editable Text** 0% New meter created By selecting "Clear all Select display source by name from the

Display Settings for DI-602AT V3.06+

list or enter the register number directly.

checkboxes", all codes and setpoints will be made non-visible.

Display Settings for FI-B101D50T and GI-50EB101 V3.06+





Present Scale Factor X Required Reading Present Reading

example: $\frac{3.3333 \times 9000}{4024} = 7.4552$

Note: Maximum scale factor value can not exceed 9.9999

Calibration steps for the respective channel in use

Texmate Conf	iguration Util ion <u>M</u> eter <u>H</u>	ity lelp								
🖺 New 🛛 🛃	Open	Save	Connect	Disconnect	Send	Send Al				
Display		First Calibra	ation point	Second Ca	libration point		Calibration			
Display Settings		Display	Input	Display	Input		Scale factor	Offset	Current Value	Update
Channels	Result	0.00	Capture	100.00	Capture	Calibrate =>	1	0.00	0.00	F Result
Calibration	Channel 1	0.000	Capture	10.000	Capture	Calibrate =>	6.6666	0.000	-32.750	Channel 1
Setpoints	Channel 2	0.00	Capture	100.00	Capture	Calibrate =>	1	0.00	0.01	Channel 2
Totalizers	Channel 3	0.00	Capture	100.00	Capture	Calibrate =>	1	0.00	3.44	Channel 3
Linearization	Channel 4	0.00	Capture	100.00	Capture	Calibrate =>	1	0.00	0.00	Channel 4
Data Logging										
Digital IO Analog Outputs Notes							After doir click Cali scale fact	ng step brate. ⁻ tor and	s 1 and 2 The New offset	2,
Watch	1.	•		2.		V	alue will	be dis	played.	
Macro	Apply input s enter f displa click C	minimu signal a the des y value Capture	um and ired , then	Appl inpu ente disp click	ly maxim t signal a r the des lay value c Capture	um and ired a, then a.				

Select the check box on each channel to view the updated calibration value.

To test the accuracy of the calibration, apply both minimum and maximum signals to verify that the meter's readings are correct.

etpoint (Relay)	Settin	gs]		Rela setti Ch2 Ch4	ay s ing , C	soui js - (h3,	rce Ch1 or	,	Rel valu	ay trij ue set	p ttings	5	This "No or " (bel	s will sel rmally C Normall ow)	ect if)pen" y Clos	rel (al ;e"
Texmate Co	nfiguratio	n Utility																
<u>File Communicat</u>	tion <u>M</u> eter	<u>H</u> elp																
🖺 New 🛛 🖻	Open 🔚	Save	Conne	ect	Disconr	nect	1	enc	1	Send A								
		Nama	Cours	~~		Source	o Do	otor		Value		Belay			Activat	ion V		
Display	Setnoint 1	SP 1	From	Regist	ter 🔻	Chanc			53	Value 1	8000	No.Lat	china	-	Above		-	
isplay Settings	Setpoint 2	SP 2	From	Regis	ter V	Off			0	-18	0.00	No Lat	tching	-	Above	9	1	
Channels	Setpoint 3	SP 3	From	Regis	ter 🔻	Off		-	0	5	0.00	No Lat	tching	-	Above		1	
Setpoints	Setpoint 4	SP 4	From	Regis	ter 🔻	Off		-	0	-5	0.00	No Lat	tching	-	Above		1	
Totalizers	Setpoint 5	SP 5	From	Regis	ter 🔻	Off		-	0	10	0.00	No Lat	tching	-	Above		-	
Linearization	Setpoint 6	SP_6	Hold	Pin	-	Off		_	0	-10	0.00	No Lat	tching	•	Above		-	
Data Logging		Mode	Co	ount	Tracki	na	Di	solav	Tim	er	1	Resolutio	n		Time(s)		Time(s)	
Digital IO	Setpoint 1	Hysteresis	-	10	Off	-		Flash	Puls	se	-	100ms	✓ Make	Delay	0.0	Max ON Time	a 0.0	
Analog Outputs	Setpoint 2	PID	-	0.00	Off	_	Г	Flash	Off		1	100ms	Make	Delay	0.0	Break Delay	0.0	
lotes	Setpoint 3	Off	-	0.00	Setpoi	int 1 💌		Flash	Off		-	100ms	Make	Delay	0.0	Break Delay	0.0	
Macro	Setpoint 4	Off	-	0.00	Off	-	- –	Flash	Off	1	-	100ms	Make	e Delay	0.0	Break Delay	0.0	
	Setpoint 5	Off	-	0.00	Off	-		Flash	Off	1	-	100ms	Make	e Delay	0.0	Break Delay	0.0	
	Setpoint 6	Off		0.00	Off		Г	Flash	Off		-	100ms	Make	e Delay	0.0	Break Delay	0.0	
		Trigger		Desti	nation R	Register	r Re	eset Mo	ode				On	Trigge	r		Status	
	Setpoint 1	Disabled	-	Off		0) Co	onstant			0	E.	Г	Print [Log		off	
	Setpoint 2	Disabled		Off		C) Co	onstant			0	6	Г	Print F	Log		0 D	
	Setpoint 3	Disabled	-	Off		C) Co	onstant	È		0	È.	Г	Print F	Log		off	
	Setpoint 4	Disabled	-	Off		C) Co	onstant			0	E.	Г	Print F	Log		C.	
	Setpoint 5	Disabled	-	Off		0) Co	onstant			0	E.	Г	Print F	Log		off	
	Setpoint 6	Break Edge	-	Tare		▼ 14	Co	onstant	t	-	0.00			Print I	Log		CD.	
										P.I.D. Set	ttings	Ť.						
		Span P	Proportio	onal li	ntegral	Deriv	ativ	e Ant	i Rese	t Windup	Min.	Cycle Tim	e					
	Setpoint 1	0.0		1.0	0.0	0	0.	0		100.0		1.	0					
	Setnoint 2	0.0		0.0	0.0	0	0	0		100.0		1.	0					

For more advanced relay functions, please see Setpoints and Relays Supplement (NZ201)

https://www.texmate.com/media/pdf/2019/05/set_points_relays_NZ201.pdf

Totalizer 1 and 2 settings

New P	Open Save Connect Disconnect Send Send All	
Display	Totalizer 1	
Display Cattings	Name Data Source Format Rounding Last Char	
Display Settings	TOT_1 Off ▼ 0 X.XX ▼ None ▼ View Mod	le 🦵 Roll Over
Channels		
Calibration		
Setpoints	after 1 hour	
Totalizers	equals 0.01	
Linearization	Totalizer 2	
Linearization	Name Data Source Format Rounding Last Char	
Data Logging	TOT_2 Off ▼ 0 X,XX ▼ None ▼ View Mod	le 🔽 Roll Over
Digital IO		
Analog Outputs	Input of 10000 Cut off 0	
Notes	after 1 hour	
Watch	equals 0.01	
waten	Current Values	
Macro	0.00 Totalizer 1 -1 TResult	
	0.00 Totalizer 2 0.00 Channel 1	
	0.00 Channel 2	
	0.00 C Channel 3	
	0.00 Channel 4	
	U.UU Channel 4	

Please refer to Totalizing Supplement (NZ208)

https://www.texmate.com/media/pdf/2019/05/totalizing_NZ208.pdf

Linearization table settings

Only consecutive tables (i.e. 1-3, 2-4) can be saved. starting at this table number. Texmate Configuration Utility File Communication Meter Help T New 1 🚰 Open ave Save Disconnect Send Send All -Table 1 Table 2 Table 3 Table 4 Load Table Starting at Save Selected Tables Display Table 1 Table 2 Table 3 Table 4 **Display Settings** Date Serial No. Serial No. Date Serial No. Date Serial No. Date Channels Input Output Input Output Input Output Input Output Calibration Fill Down Setpoints Reset Totalizers Sort Linearization Data Logging Digital IO Analog Outputs Notes 15 Watch Macro -0% New meter crea Reset **Fill Down**

Please refer to Linearizing Supplement (NZ207)

https://www.texmate.com/media/pdf/2019/05/linearization NZ207.pdf

Right-click menu:

Fill Down

-Use the values of the current line for the rest of the table.

Reset

-Return current table to factory default.

Sort

-Sort current table in ascending order (tables have to be sorted to work properly).

Load tables from the file and

enter them consecutively

To be used with data login options only



Serial Communications Supplement (NZ202) Pages 18-21

https://www.texmate.com/media/pdf/2019/05/SerialComm_NZ202.pdf

🙀 Texmate Confi	guration Utility	y						x
<u>File</u> <u>Communication</u>	on <u>M</u> eter <u>H</u> e	lp						
🖺 New 🛃	Open 🛛 🔚 Si	ave Connect	Disconnect	Send	Send All			
Display Display Settings Channels Calibration Setpoints Totalizers Linearization Data Logging Digital IO Analog Outputs Notes Watch Macro	Pin Lock Hold Test (Reset) Capture	Function Reset Total 1 Reset Totalizer 2 Display Test Manual Zero (if any	y channel is set to ear functio d (9) and	o manual in 'Zero on pins of Test (10)	✓ Maintenance')	Status F Lock F Hold Captur	ie	
33% New meter	created							11.

Min and Max range setting for analog output. e.g. 0V = 0.00 10V = 10.00

Analog Outputs Calibration Steps: 1. From the Source field, select the respective channel in use, then enter Zero and Full-Scale values. х Texmate Configuration Utility File Communication Meter Help Send P Open Disconnect i≣ New - Save Send All Analog Output 1 Analog Output 2 Display Source Channel 1 253 Source Off 0 T **Display Settings** 0.00 0 Zero Zero Channels Full Scale 10.00 Full Scale 100000 Calibration Calibration Calibration Setpoints -16384 韋 Low -16384 🚔 Low Totalizers Linearization 30000 🚖 High 30000 High Data Logging Digital IO 0-10V 0-20mA 4-20mA 0-20mA 4-20mA 0-10V Analog Outputs Notes Watch Macro New meter created 0%

2.

Connect the meter's input channel from a signal generator.

3.

Connect the meter's output (terminal 16 (+) and 17 (-) to a multimeter

4.

Press the respective calibration button (e.g. 0-10V) to obtain the auto-generated analog output values. Feed a low input signal to the meter, (e.g. 0V) and check the multimeter's reading. It should be very close to 0.000

6.

5.

Use the up-down arrow (or slider) to fine-tune the value displayed on your multimeter.

7.

Repeat the same process for input signal High (e.g. 10V) and check the multimeter's reading. It should be very close to 10.000

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Texmate Conf	iguration Utility 📃 🔲 🗙
File Communicat	ion <u>M</u> eter <u>H</u> elp
🖺 New 🛃	Open Save Connect Disconnect Send Send All
Display Display Settings Channels Calibration Setpoints Totalizers Linearization Data Logging Digital IO Analog Outputs Notes Watch Macro	On this page you can write down some notes (up to 64 KB) which will be stored together with the setup in the configuration file (i.e. not on the meter itself)
0% New mete	er created

Watch

🖺 New 🛃	Open	Save		Connect	Disconnect	Send	Send All
Display	Poll	Register		Va	lue		
Display Settings	•	Channel 3	-	251		12:15:3	9
Channels	•	Channel 1	-	253		56.20	6
Calibration	~	Channel 2	-	252		0.0	1
Setpoints	▼	Setpoint 4	-	9		40.0	0
Totalizare		Setpoint 1	-	6		10.0	0
		Setpoint 2	-	7		20.0	0
Inearization		Totalizer 1	-	16		3.5	7
Data Logging		Totalizer 2	-	17		4.64	4
Digital IO	~	Peak	-	12		433.2	5
Analog Outputs	2	Valley	-	13		-25.0	1
Notes	1						- 1913
Watch							
Macro							

Dropdown menus can be changed to desired register.

The Watch menu lets you observe the values displayed by the meter in real time.

Texmate Conf	iguration Utility				
File <u>C</u> ommunicat	Open Save	Connect	Disconnect	end Send All	
			1		
Display		Implemented	Macro disabled		
Display Settings	Customer ID Macro	Г			
Channels	Main Macro				
Calibration	Edit Macro				
Setpoints	Edit Down Macro				
Totalizers	View Mode Macro	-			
	F1 Button Macro	- -			
Data Logging	F2 Button Macro	, 			
	Paset Macro	- -			
Notes		/			
Watch					
Macro					

Indicates which types of macros have been installed.



1934 Kellogg Ave., Carlsbad, CA 92008 USA Tel: 1-760-598-9899 • 1-800-TEXMATE (800-839-6283) • Email: orders@texmate.com • techsupport@texmate.com Tiger Controller Configuration Utility Technical Manual Copyright © 2022 Texmate Inc. All rights reserved. Published by: Texmate Inc. USA. Information in this Technical Manual is subject to change without notice due to correction or enhancement. The information described in this manual is proprietary to Texmate, Inc. and may not be copied, reproduced or transmitted, in whole or in part, in connection with the design, manufacture, or sale of apparatus, device or private label product without the express written consent of Texmate, Inc.