

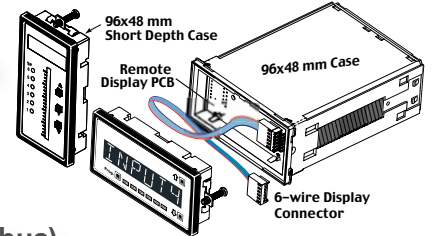


## Tiger Family

# Robust, Reliable, Programmable Edge Smart Meter Controllers and Transmitters for your IIoT Applications

- ▶ IIoT Edge Computing, Distributed Control System and SCADA ready
- ▶ Combine Process Control and Micro PLC
- ▶ Out of the box process control including PID, easy setup, no PLC programming required
- ▶ MicroRack modularity for easy maintenance and reconfiguration
- ▶ Industry's widest range of signal conditioning input modules (140+)
- ▶ Common Setpoint Control Outputs supported (relay, logic, SSR)
- ▶ Analog Outputs available (single or dual mA/DCV)
- ▶ 5, 6 and 8 Digit Display in multiple DIN case sizes available
- ▶ Ethernet, USB, RS-485, RS-232 communication options (ASCII, Modbus)
- ▶ Texmate BASIC structured text language for Custom Applications
- ▶ PC utility for custom meter configuration/setup

Optional Ultra-Short Depth Remote Display



Tiger Transmitters with Optional HMI Touch Screen Display



36x144mm 9/64 DIN



48x96mm1/8 DIN



96x48mm1/8 DIN

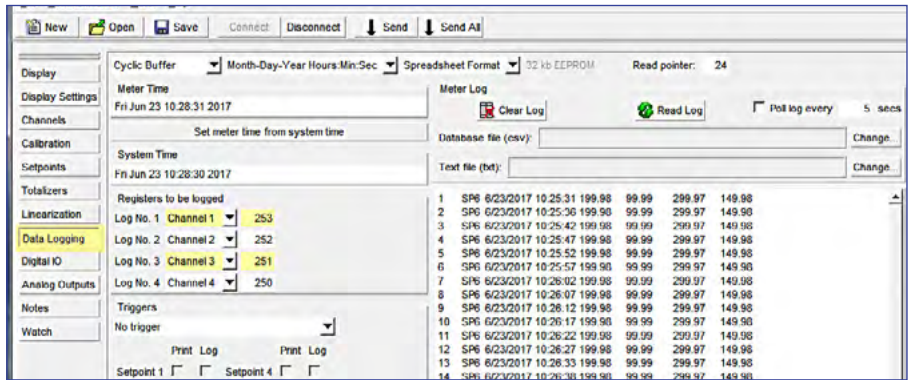


**Reliable, powerful and intelligent, 5 to 8 digit Edge Programmable Meter Controller (Micro PLC) with over 140 single, dual, triple and quad modular input signal conditioners; over 30 I/O outputs including analog, serial, ethernet and relays; advanced configuration software and custom apps for your smart IIoT metering and control applications.**

The **Tiger Operating System** has built-in, sophisticated data logging software with date/time stamp to log in an endless loop. **Number of samples limited only by the size of the SD card.** It can be triggered from the PROGRAM button, digital inputs, time or alarm functions. **Data Logging** combined with an Ethernet interface for edge computing and cloud data analytics applications

**Embedded Application Software Includes:**

- Up to 4 input channels with cross channel math (A+B, A-B, AxB, A/B) between CH1& CH2 for multi-channel processing
- Full Floating-point Math
- Square Root, Inverse and Log of Input
- 4 x 32 Point Or 1 x 125 Point Linearization Table
- Smart Auto Zero with Programmable Capture Band, Rate of Change and Aperture Window for Weighing Applications
- Set Tare, Reset Tare for Batching and Weighing
- Smart Quick Response Averaging
- Smart Timer and Time Integration Functions
- Time and Event-based Sequencing
- Polynomial Calculations
- Remote Reset of Any Function
- Dual independant Totalizers
- Dual PID
- Peak & valley (max & min) with front panel recall and reset
- Setpoints activated from any input, any register in the meter or from any digital input.
- Autozero maintenance for super stable zero reading is provided for use in weighing applications
- Tiger Operating system programmable using BASIC syntax to develop custom applications (Macro).



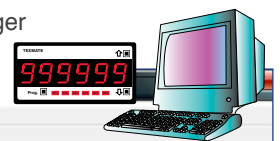
**15 year lithium battery**

**Real-time Clock** for printing, data logging and activating a setpoint or control action at fixed times of the hour, day, week, month or year.

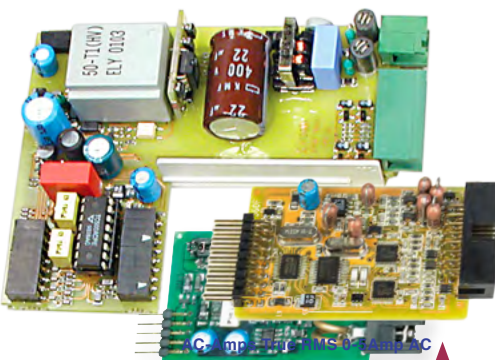


**Configuration & Programming the meter from a PC**

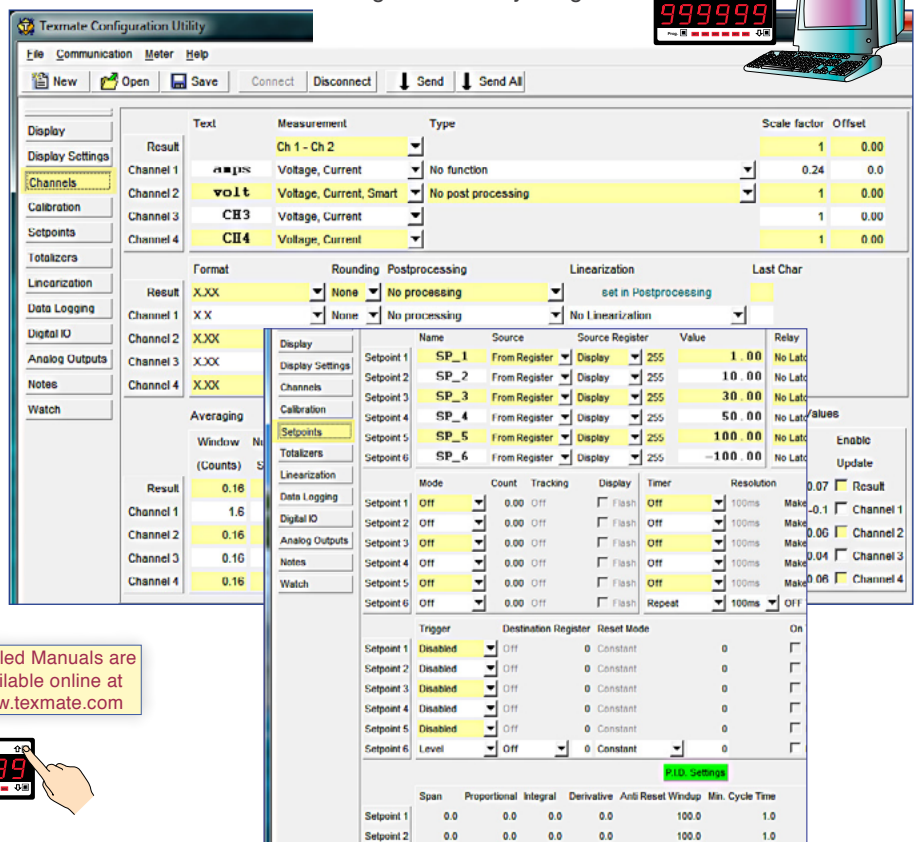
with Texmate's easy to use Tiger Configuration Utility Program.



**Over 140 Different Input Signal Conditioners to choose from**



- Choose from over 140 different single, dual, triple and quad input signal conditioners.
- Mixed function and smart modules with their own A/D's, co-processors, SSR's and I<sup>2</sup>C Bus outputs are available to suit almost any application.



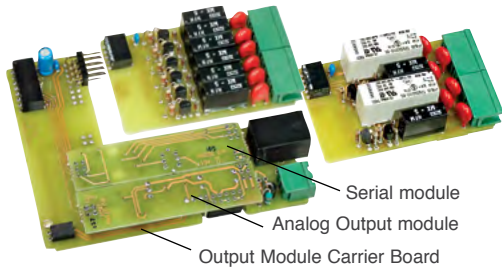
**Programmable Front Panel Controls**

The front panel buttons can be used to control or program any standard functions. or to only access and display specifically designated functions, such as on demand Tare, Auto-Cal and Compensation.

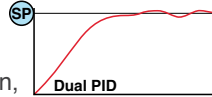
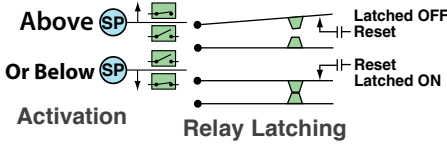
Detailed Manuals are available online at [www.texmate.com](http://www.texmate.com)



**6 Super Smart Setpoints - 8 Selectable Functions - 7 Programmable Timer Modes**



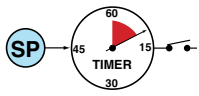
4 Amp and 9 Amp Relays or optional SSR Outputs can be energized above or below setpoints.



6 super smart, independently programmable setpoints with 8 selectable functions, including latching, deviation, hysteresis, register resetting, tracking and PID plus 7 programmable timer modes on all 6 setpoints

**7 Multi Function Interval Timers on all 6 setpoints**

- Normal..... Adjustable Delay On Make / Adjustable Delay On Break
- 1-Shot ON..... Adjustable Delay On Make / Adjustable Min ON-Time
- 1-Shot OFF..... Adjustable Delay On Break / Adjustable Min OFF-Time
- Pulse ON..... Adjustable Delay On Make / Adjustable Max ON-Time
- Pulse OFF..... Adjustable Delay On Break / Adjustable Max OFF-Time
- Repeat ON..... Adjustable ON-Time / Adjustable OFF-Time
- Repeat OFF..... Adjustable OFF-Time / Adjustable ON-Time



**High Efficiency CE tested Auto-sensing AC/DC Power Supply**

- Standard 85-265 VAC / 95-300 VDC
- Optional Low Voltage 15-48 VAC /10-72 VDC

**Scrolling Annunciator** up to 99 Characters long is available on all 6 setpoints for Alphanumeric Displays with Fill-in-the-blanks Custom Apps.



Tiger Development System - PeakValley.bas

Functional Listing | Alphanumeric Listing

```

73
74 ELSIF &TIMER1 >= &Time THEN
75
76 &VALLEY = 0
77 &PEAK = 0
78 &TIMER1 = 0
79 GOSUB LEADS_OFF
80
81
91 IF |PROG_BUTTON = ON THEN
92 IF &TIMER2 > PROG_TIMEOUT THEN
93
94 EDIT &Time
95 GOSUB LEADS_ON
96 &CURRENT_DISPLAY_FORMAT = 0006
97 &EDIT_MAX = 36000 // maximum: 3600 seconds = 1 hour
98 &EDIT_MIN = 2 // minimum: 0.2 seconds
99 &EDIT_DEF = 30 // default: 3.0 seconds
100
101 &STATE = 1
102 WRITE "Time slot"
103
104
105
106 ENDIF
107
108 ELSE
109 &TIMER2 = 0
110
111 ENDIF
112
113 ELSE
114 &TIMER2 = 0
115
116 ENDIF
117
118 END
119

```

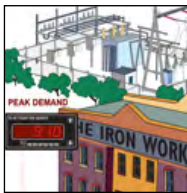
Watch Window

Active	Label	Register	Format	Value

Compiler messages:

Opened: I:\Meter Programming\I Macros\PeakValley.bas

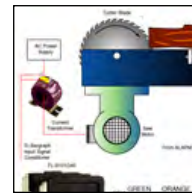
Texmate's **Powerful Smart Custom Applications** BASIC and Tiger Compiler can quickly Convert your special metering, control and automation ideas into any proprietary OEM application.



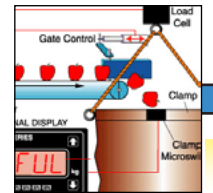
App 44  
Peak Demand



App 41  
Weighing with  
Tare Zero Offset



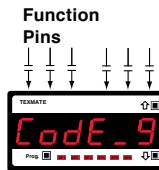
App 15  
AC Current  
Measurement  
Load Control



App14  
Bag Filling  
Machine using  
Load Cell Input

More

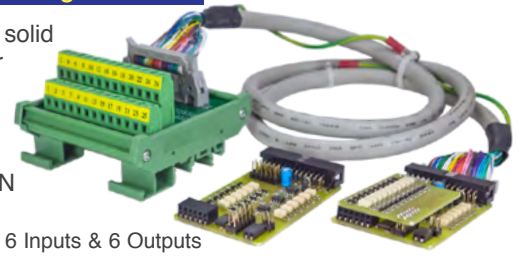
**Programmable Function Pins**



Three logic level inputs are provided on the function pin header that can be programmed to STOP/START/RESET almost any function including: set tare, reset tare, relays, totalizers, print output, data logging, peak, valley, or any register from an external contact closure. Setup using Code 9.

**Up to 22 Opto-Isolated I/Os Plug-in Module**

Plug-in I/O modules include solid state relays, logic outputs or open collector outputs; 6 inputs & 16 outputs of opto-isolated I/O can be connected to an external DIN Rail terminal block module.



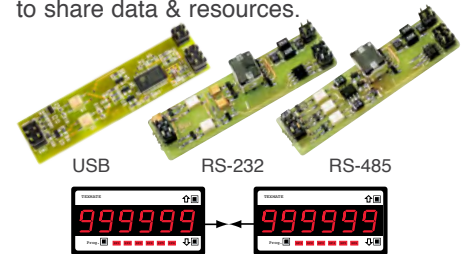
Fully Programmable with custom applications

**16-bit Isolated Analog Outputs**

Single and Dual Programmable 0/4 to 20 mA or 0 to 10 V for retransmission, 4-20 mA loops, drive valve actuators, remote controllers & displays, multi-loop feedback and PID output.



**Serial Output Options** include RS-232, RS-485, ModBus, Ethernet, USB or Direct **Meter to Meter** enables two meters to share data & resources.





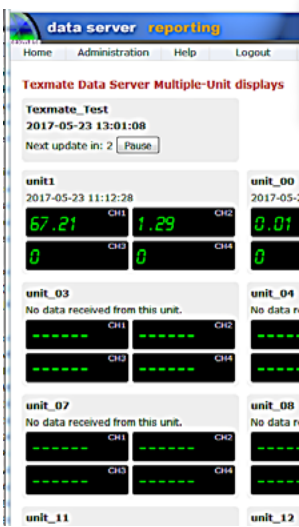
# Super-Intelligent Tiger Micro PLC

## Enable All Types of Sensors to Accurately Outperform Themselves

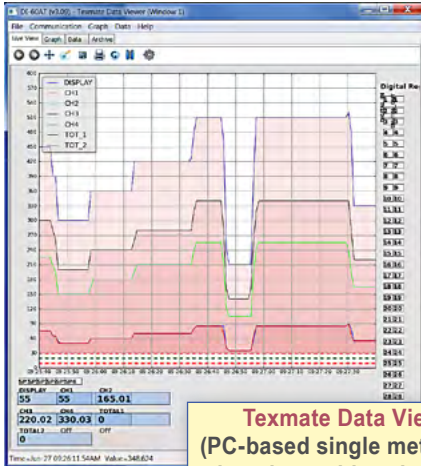
	Infrared Emissivity Compensation and Linearization				Conductance and pH with Chemical and Biological Linearization and Compensation
	LVDT, LDT & MDT Position & Displacement Measurement		Flow Calculation and Compensation BTU, Viscosity, and Mass with Linearization and Temperature Compensation		
	Torsion Load Measurement with Linearization		Strain and Weight with Linearization, Autotare, and Smart AutoZero Maintenance		LOAD CELL Temperature and Non-Linearity Compensation
	CT or Shunt Linearization and Temperature Compensation with patented True RMS Conversion for Precision AC or DC Watts		Pressure Transducer Compensation and Linearization for Complex Volume Measurement		Hygrometer 3D Linearization for Precision Dew Point
	Semiconductor Near-Vacuum Precision Sensor Compensation		Ultrasonic Sensor Compensation		Environmental Emission Gas Sensor Linearization
	Quadrature Inputs from Encoders for Up/Down and Position		Mass Air Flow and Velocity		

Measure, count, time, digitize, linearize, compensate, calculate, compare, accumulate, integrate, annunciate, display, control, record, report, communicate and automate any process, in any industry, from any sensor, with the Texmate Tiger Family of Programmable Meter Controllers.

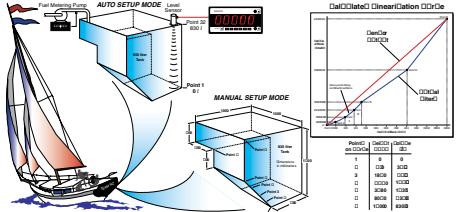
### Custom applications for your smart metering and smart control industrial processes



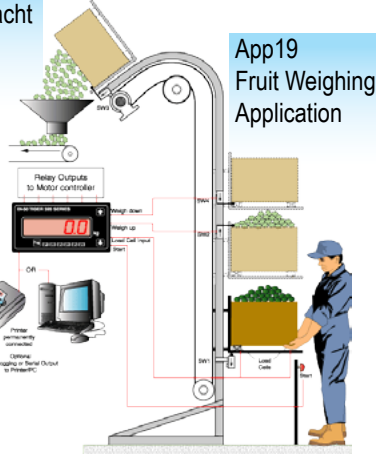
**Texmate Data Server** (PC-based meter server with multiple meter viewer, meter-to-meter data exchange, alarm emails, and historian database, requires Texmate Custom Application to be installed)



**Texmate Data Viewer** (PC-based single meter data log viewer, historian with Batch Controller application)



App 23 Linearize Yacht Fuel Tank Application



App 19 Fruit Weighing Application

**TEXMATE** Smart Metering Smart Control  
450 State Place, Escondido, CA 92029

- For ordering info call:..... 1-800-TEXMATE (800-839-6283)
- For tech assistance call: (760) 598-9899
- Email: orders@texmate.com