

Tiger Family

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

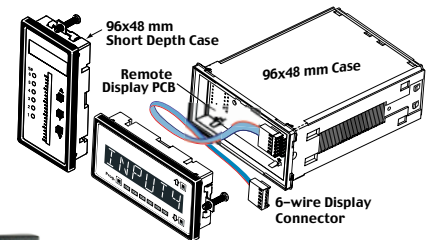


**Compact
Versatile
Custom App
Automation**

- ▶ 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, RS-485, RS-232 communication options (ASCII, Modbus)
- ▶ Texmate BASIC structured text language for Custom Applications
- ▶ PC utility for custom meter configuration/setup
- ▶ Made in USA, UL Certified



Optional Ultra-Short Depth Remote Display



TI Series Transmitters



Tiger Transmitters with Optional HMI Touch Screen Display



GI-50

144x72mm 9/32 DIN



DI-802XA

36x144mm 9/64 DIN



DI-60A



DI-60X



DI-60



DI-60A5C



DI-50



DI-602A5C

96x48mm1/8 DIN



DI-503



DI-50AN6



DI-50B51



FI-B101D50

48x96mm1/8 DIN

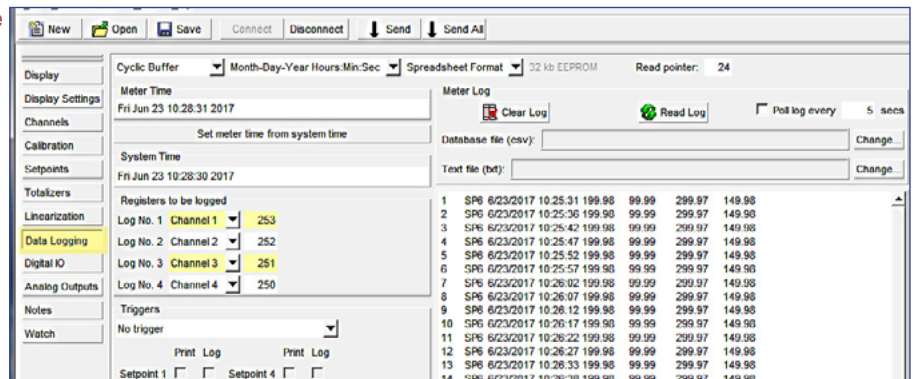


Reliable, powerful and intelligent, 5 to 8 digit Edge Programmable Meter Controller (Micro PLC) with over **140** single, dual, triple and quad modular input signal conditioners; over **30** I/O outputs including analog, serial, ethernet and relays; advanced configuration software and custom apps for 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 two channels 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
- Smart Quick Response Averaging
- Smart Timer and Time Integration Functions
- Time and Event-based Sequencing
- Polynomial Calculations
- Remote Reset of Any Function
- Dual independent 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.

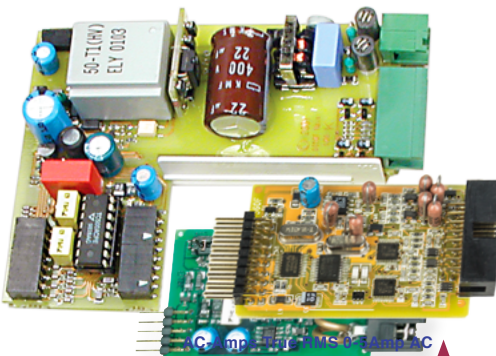


Configuration & Programming the meter from a PC

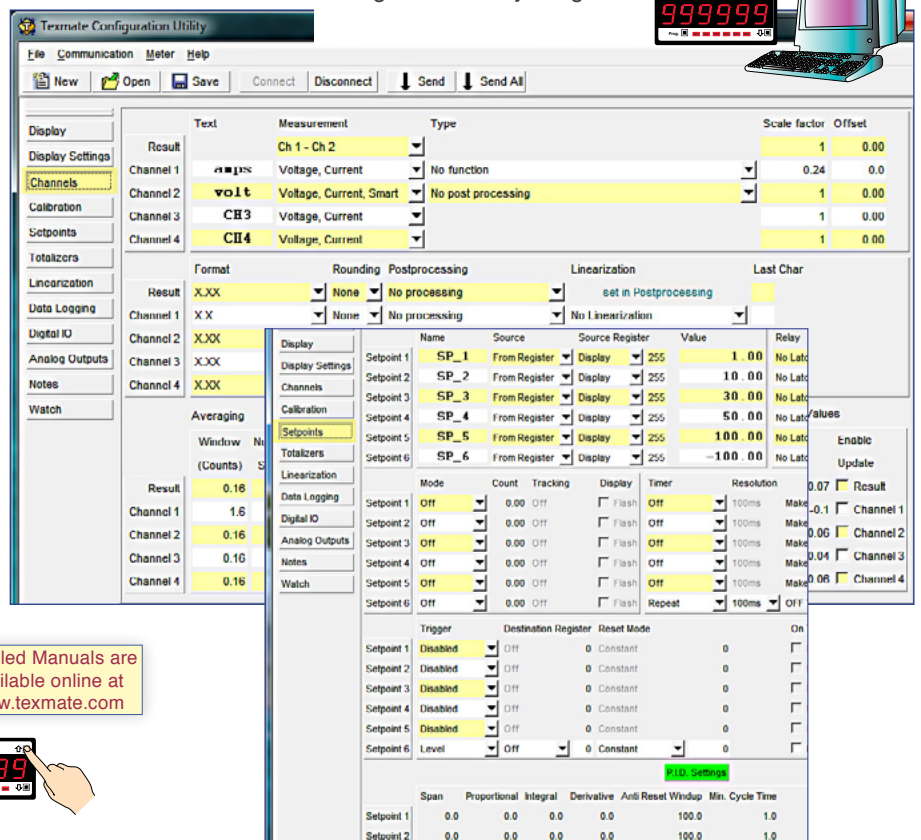
with Texmate's easy to use Tiger Configuration Utility Program.



Over 140 Different Input Signal Conditioners to choose from



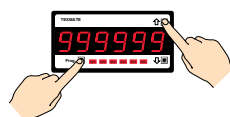
- Choose from over 140 different single, dual, triple and quad input signal conditioners.
- Mixed function and smart modules with their own A/D's, co-processors, SSR's and I²C Bus outputs are available to suit almost any application.



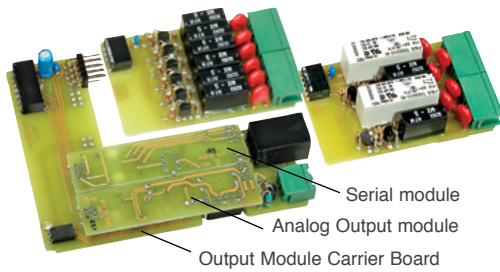
Programmable Front Panel Controls

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.

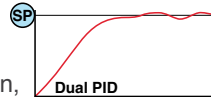
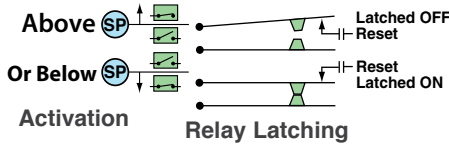
Detailed Manuals are available online at www.texmate.com



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



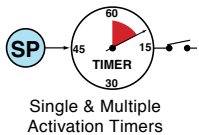
4 Amp and 9 Amp Relays or optional SSR Outputs can be energized above or below setpoints.



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

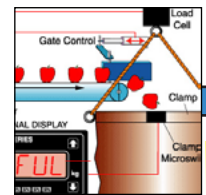
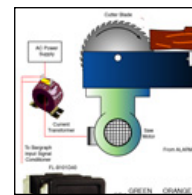
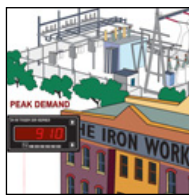
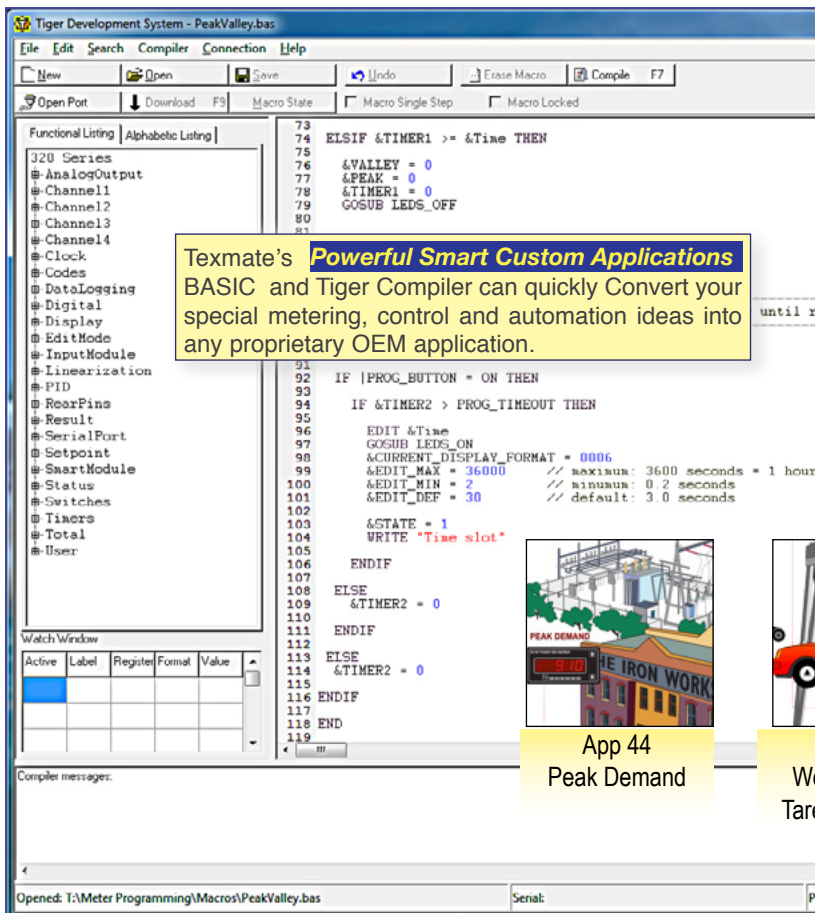


High Efficiency CE tested

Auto-sensing AC/DC Power Supply

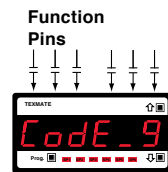
- Standard 85-265 VAC / 95-300 VDC
- Optional Low Voltage 15-48 VAC / 10-72 VDC

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



More

Programmable Function Pins

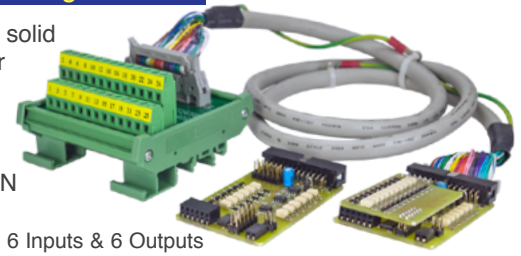


Three logic level inputs are provided on the function pin header that can be programmed to STOP/START/RESET almost any function including: set tare, reset tare, relays, totalizers, print output, data logging, peak, valley, or any register from an external contact closure. Setup using Code 9.

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;

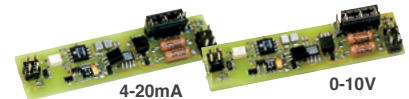
6 inputs & 16 outputs of opto-isolated I/O can be connected to an external DIN Rail terminal block module.



Fully Programmable with custom applications

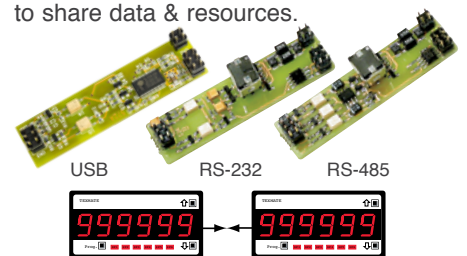
16-bit Isolated Analog Outputs

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



LVDT, LDT & MDT Position & Displacement Measurement



Conductance and pH with Chemical and Biological Linearization and Compensation



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



Pressure Transducer Compensation and Linearization for Complex Volume Measurement



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



Semiconductor Near-Vacuum Precision Sensor Compensation



Mass Air Flow and Velocity

Ultrasonic Sensor Compensation



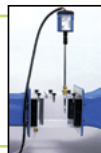
Environmental Emission Gas Sensor Linearization



Hygrometer 3D Linearization for Precision Dew Point

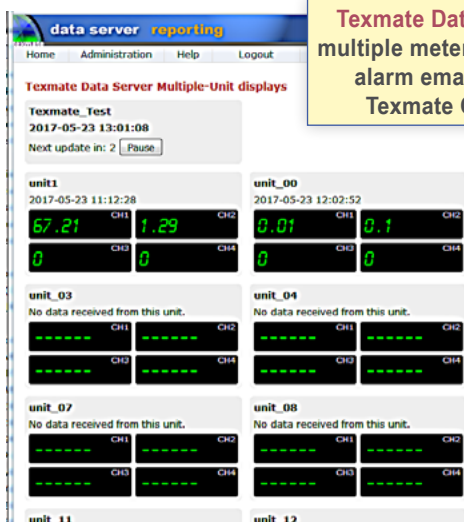


Quadrature Inputs from Encoders for Up/Down and Position

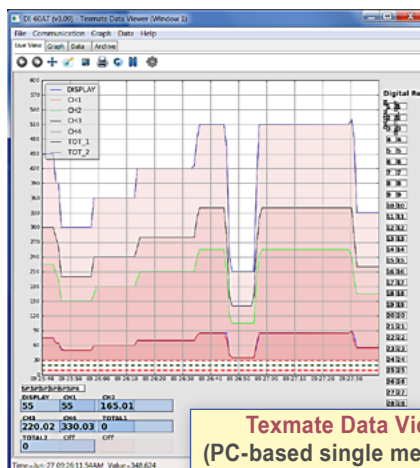


Measure, count, time, digitize, linearize, compensate, calculate, compare, accumulate, integrate, annunciate, display, control, record, report, communicate and automate any process, in any industry, from any sensor, with the Texmate Tiger Family of Programmable Meter Controllers.

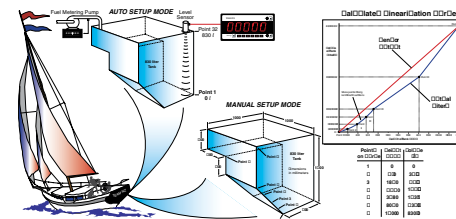
Custom applications for your smart metering and smart control industrial processes



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