TEXMATE Smart Metering Smart Control

Since 1976

www.texmate.com

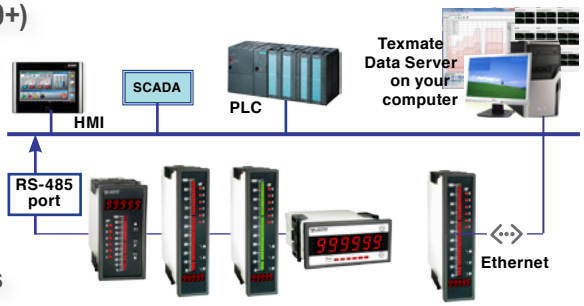
Texmate Intelligent Tiger Series

Tiger Family

Robust, Reliable, Programmable Smart Edge 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)
- Ethernet, USB, RS-485, RS-232 options (ASCII, Modbus)
- Analog Outputs available (single or dual mA/DCV)
- PC utility for custom meter configuration/setup
- 5, 6 and 8 Digit Display in multiple DIN case sizes available
- Texmate BASIC structured text language for Custom Applications

CE RoHS COMPLIANT MADE IN U.S.A. c UL us LISTED E469078

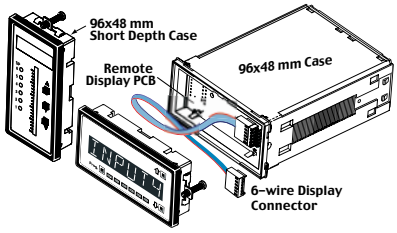


Shop

TI Series Transmitters / Micro PLC

Tiger Transmitters with Optional HMI Touch Screen Display

Optional Ultra-Short Depth Remote Display



144x72mm 9/32 DIN

GI-50

96x24mm1/16 DIN

BI-60A

DI-802XA

DI-60A

DI-60X

DI-60

DI-60A5C

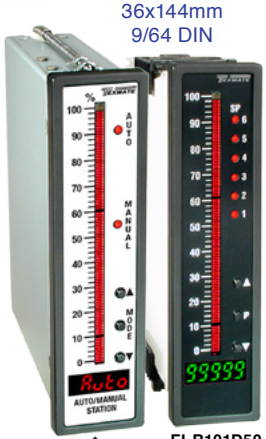
DI-50

DI-602A5C

96x48mm1/8 DIN

DI-503 DI-50AN6 DI-50B51

36x144mm 9/64 DIN



FI-B101D50

Optional Custom Faceplate Design

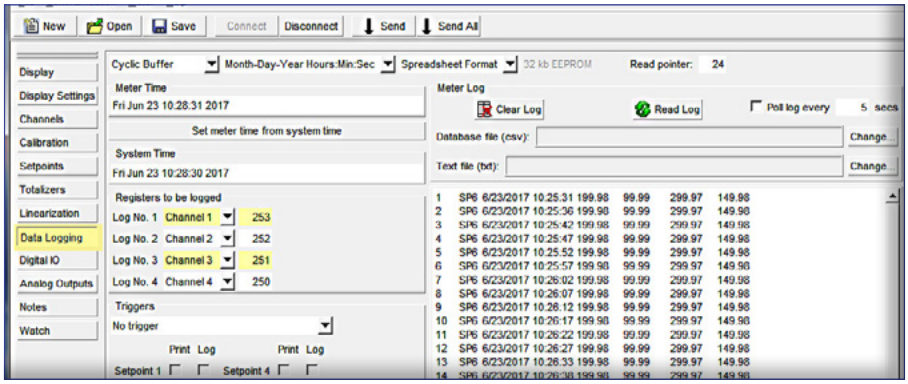
Texmate Intelligent Tiger Series

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.

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
- 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
- Set Tare, Reset Tare for Batching and Weighing
- 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).

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

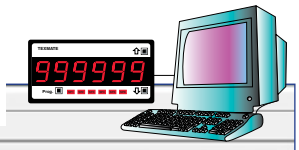


15 year lithium battery *Real-time Clock*

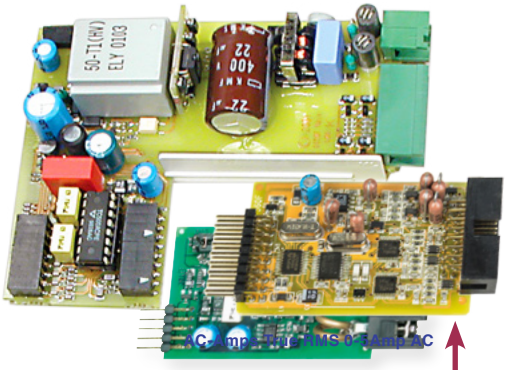
for printing, data logging and activating a setpoint or control action at fixed times of the hour, day, week, month or year.

Configuration & Programming the meter from a PC

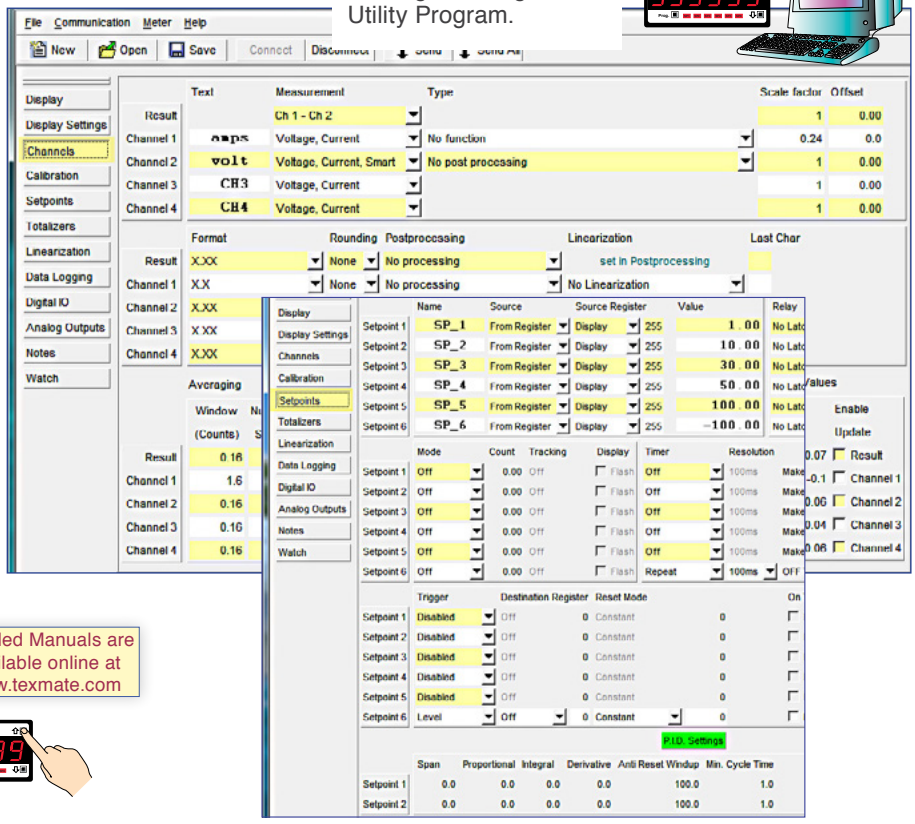
with Texmate's easy to use Tiger Configuration Utility Program.



Over 140 Different Input Signal Conditioners to choose from



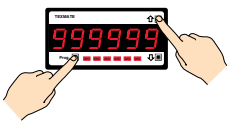
- Choose from over 140 different single, dual, triple and quad input signal conditioners.
- Mixed function and smart modules with their own A/D's, co-processors, SSR's and I^2C Bus outputs are available to suit almost any application.



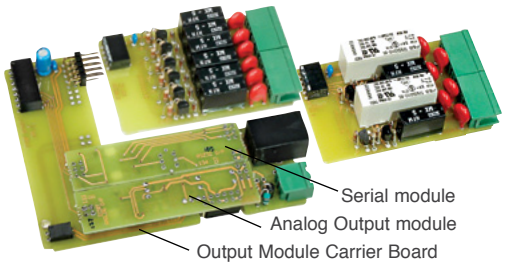
Programmable Front Panel Controls

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.

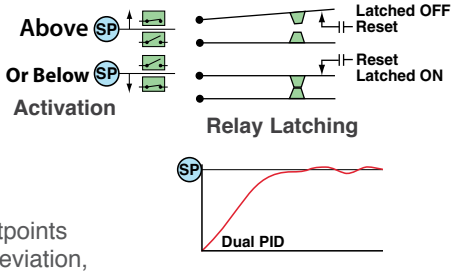
Detailed Manuals are available online at www.texmate.com



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



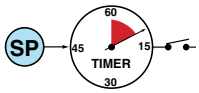
4 Amp and 9 Amp Relays or optional SSR Outputs can be energized above or below setpoints.



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

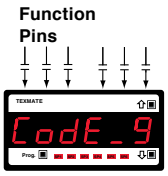
7 Multi Function Interval Timers on all 6 setpoints

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



Single & Multiple Activation Timers

Programmable Function Pins

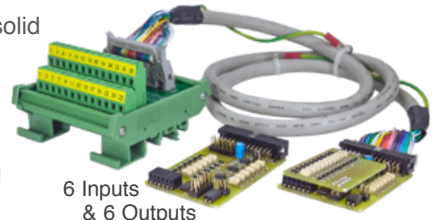


Three logic level inputs are provided on the function pin header that can be programmed to STOP/START/RESET almost any function including: set tare, reset tare, relays, totalizers, print output, data logging, peak, valley, or any register from an external contact closure. Setup using Code 9.

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

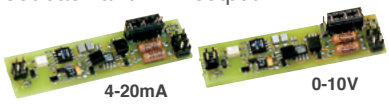
High Efficiency CE tested

Auto-sensing AC/DC Power Supply

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

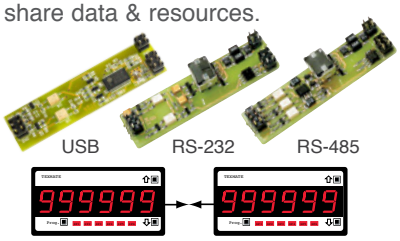
16-bit Isolated Analog OUtputs

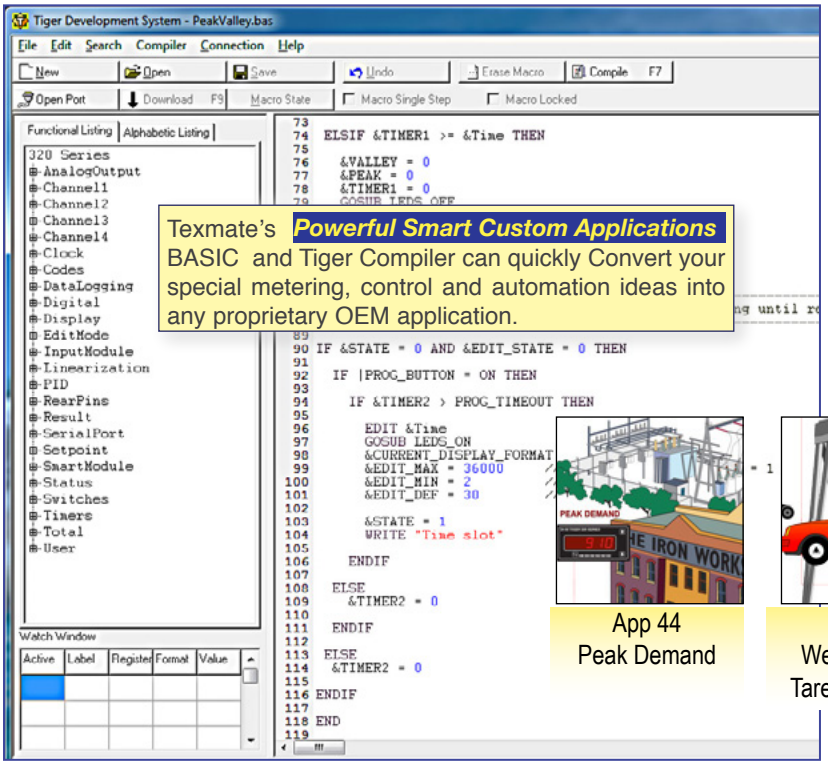
Single and Dual Programmable 0/4 to 20 mA or 0 to 10 V for retransmission, 4-20 mA loops, drive valve actuators, remote controllers & displays, multi-loop feedback and PID output.



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

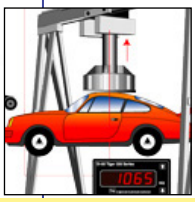
Serial Output Options include RS-232, RS-485, ModBus, Ethernet, USB or Direct **Meter to Meter** enables two meters to share data & resources.



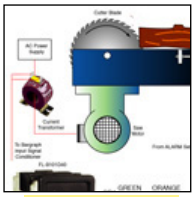


Texmate's **Powerful Smart Custom Applications** BASIC and Tiger Compiler can quickly Convert your special metering, control and automation ideas into any proprietary OEM application.

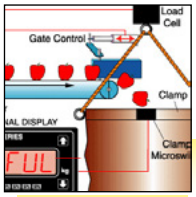
App 44
Peak Demand



App 41
Weighing with
Tare Zero Offset



App 15
AC Current
Measurement
Load Control



App14
Bag Filling
Machine using
Load Cell Input

More

Super-Intelligent Tiger Micro PLC

Enable All Types of Sensors to Accurately Outperform Themselves

Texmate Intelligent Tiger Series


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


Semiconductor Near-Vacuum Precision Sensor Compensation

Ultrasonic Sensor Compensation


Hygrometer 3D Linearization for Precision Dew Point

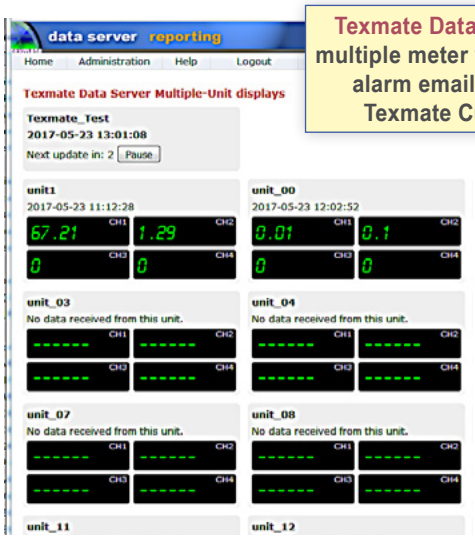

Quadrature Inputs from Encoders for Up/Down and Position

Mass Air Flow and Velocity

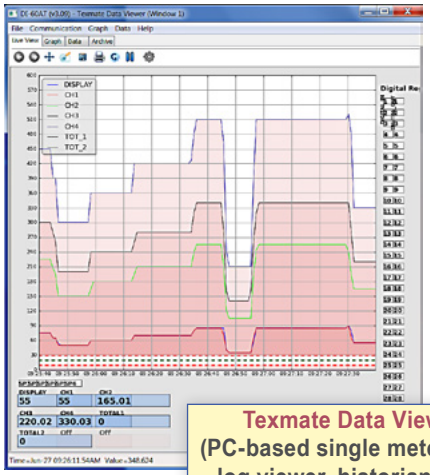
Environmental Emission Gas Sensor Linearization

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.

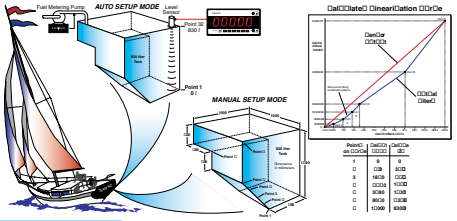
Custom applications for your smart metering and smart control industrial processes



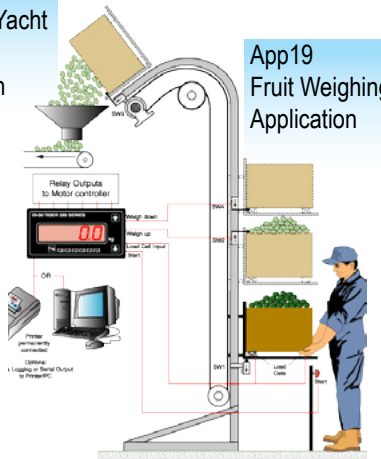
Texmate Data Server (PC-based meter server with multiple meter viewer, meter-to-meter data exchange, alarm emails, and historian database, requires Texmate Custom Application to be installed)



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



App 23 Linearize Yacht Fuel Tank Application



App19 Fruit Weighing Application

TEXMATE Smart Metering Smart Control Since 1976

1934 Kellogg Ave. Carlsbad CA 92008

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