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, 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
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.

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).

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.

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, combined with an Ethernet interface for edge computing and cloud data analytics applications.
6 Super Smart Setpoints - 8 Selectable Functions - 7 Programmable Timer Modes

6 super smart, independently programmable setpoints with 8 selectable functions, including latching, deviation, hysterisis, 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 ON-Interval
Repeat OFF.......Adjustable OFF-Time / Adjustable ON-Interval

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.

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.

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.

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

More...
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
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

Measure, count, time, digitize, linearize, compensate, calculate, compare, accumulate, integrate, announce, 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)