

# TEXMATE



TIGER FAMILY



## DI-50EB51H & DI-50TB51H

Programmable Meter Controllers

Tiger 320 Series PMCs

51 Segment Bargraph, 5 Digit 0.31" LEDs  
in a 1/8 DIN Case

**A powerful, intelligent, 5-digit, 51-segment Programmable Meter Controller (PMC) with modular outputs, input signal conditioning and advanced software features for monitoring, measurement, control and communication applications.**

### General Features

- The Tiger 320 Operating System supports an easy to use PC based Configuration Utility Program, which can be downloaded FREE from the web, and programming from front panel buttons.
- The T Version supports custom macro programs that can be easily produced with the Tiger 320 Macro Development System (available FREE on the web). The Development System enables programs to be written in BASIC, which can utilize any combination of the hundreds of functions and thousands of registers embedded in the Tiger 320 Operating System.
- Red or green 7-segment, 0.31" high LEDs with full support for seven segment alphanumeric text.
- Brightness control of LED display from front panel buttons.
- 51 segment red or green bargraph that can display the signal from any of four channels or the result of a processed input signal.
- Modular construction with more than 120 interchangeable input signal conditioners and more than 25 interchangeable I/O modules.
- Up to 4 input channels with cross channel math for multi-channel processing.
- For applications where sensor excitation is required, modules are provided with 5V, 10V or 24 V DC voltage outputs.
- On demand tare, calibration and compensation can be initiated by the front panel program button.
- Autozero maintenance for super stable zero reading is provided for use in weighing applications.
- Programmable input averaging and smart digital filtering for quick response to input signal changes.
- Display text editing. Customize display text for OEM applications.
- Scrolling display text messaging on T meters with macros.
- Auto-sensing high voltage or optional low voltage AC / DC power supply.
- Serial output options include RS-232, RS-485, ModBus, Ethernet, DeviceNet or direct meter-to-meter communications.
- Single or dual 16-bit Isolated Analog Outputs. Programmable 0~4 to 20mA or 0 to 10V for retransmission, 4-20mA loops to drive valve actuators, remote controllers & displays, multi-loop feedback and PID output. Scalable from 1 count to full scale.
- Dual independent totalizers to integrate input signals.
- 6 super smart, independently programmable setpoints with 8 selectable functions, including latching, deviation, hysteresis, register resetting, tracking and dual PID. Plus 7 programmable timer modes on all 6 setpoints.
- Setpoint tracking, setpoint latching and manual relay reset.
- Setpoints activated from any input, any register in the meter or from any digital input.
- Plug-in I/O modules include electromechanical or 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.
- Internal program safety lockout switch to prevent tampering.
- Peak & valley (max & min) with front panel recall and reset.
- Real time clock with 15 year Lithium battery backup.
- Data logging within the meter (up to 4000 samples with date/time stamp).
- Optional NEMA-4 front cover.

### Input Module Compatibility



**TIGER FAMILY:** More than 120 different Plug-in I-Series Input Signal Conditioners are approved for the Tiger Family of meters.

See *I-Series Input Signal Conditioning Modules Guide (Z87)* for an up-to-date list.

