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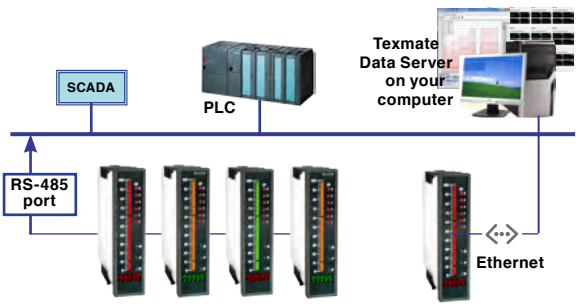
TEXMATE Smart Process Measurement & Control Since 1976

# Edgewise Style Bargraph MicroPLC

- *Upgrade Old Analog Edgewise Meters*
- *General Monitoring and Control Applications*
- *Great Visualization of Key Process Measurements*
- *Independent 5 Digit Display & 101 Segment Bargraph*
- *Linear and Center Zero (+/-) Bargraph Capability*
- *Optional RS-232, RS-485 or Ethernet (ASCII or Modbus RTU)*
- *Multiple Alarms with Digital and Relay Output Options*
- *Wide Power Supply Range (AC or DC)*
- *Optional Single or Dual Analog Output (4-20mA or 0-10 DCV)*
- *Datalogging and 2 Channels of PID Control*
- *Custom Applications & User Interfaces with TexBASIC*


**■ Over 140 different input Signal Conditioning modules available in single, dual, triple or quadruple inputs, mixed signals/channels, to accommodate a variety of sensors with a single meter!**

- pH
- AC Volts or Current
- DC Volts or Current
- Single Phase Power
- Process Loops
- Thermocouples/RTDs
- Resistance
- Strain/Load Cell
- Direct Pressure
- Displacement / Movement
- Freq./RPM/Counters




▸ **E**njoy the power of the Texmate Tiger family's high performance, microPLC capabilities in an edgewise style meter. When the TRI-COLOR bargraph display is used, the bargraph can show the status of critical parameters relative to key setpoints (e.g., green means parameter under control, orange means the parameter has crossed a warning setpoint, red means the parameter has crossed a danger setpoint) and activate related alarms (digital outputs, relay or SSR outputs).

▸ **T**he digital display can show the value of a related parameter or measurement, and it can be set to flash when the danger setpoint is triggered by using a simple TexBASIC application. Perform cross channel math using built in functions (on demand tare, programmable filtering, dual totalizers, setpoint triggering, etc.) or perform complex math and analysis using a TexBASIC application with a custom user interface. Use the relay outputs or analog output (process loop) for process control with built in hysteresis or PID control algorithms.

▸ **D**atalogging of up to 4000 samples in on-board non-volatile memory is optional as is logging to a 2 gigabyte SD card for thousands of more samples, add the optional real time clock for accurate time stamps when OR91 option is used.

▸ **C**onnect the meter to a DCS or SCADA system via optional RS-232 or RS-485 supporting TexASCII or Modbus RTU protocols. The optional Ethernet connectivity (ASCII/Modbus) coupled with a simple TexBASIC application and our Data Server PC software brings high level data historian, alarm emails, inter-meter communication, and a simple HMI to your application.

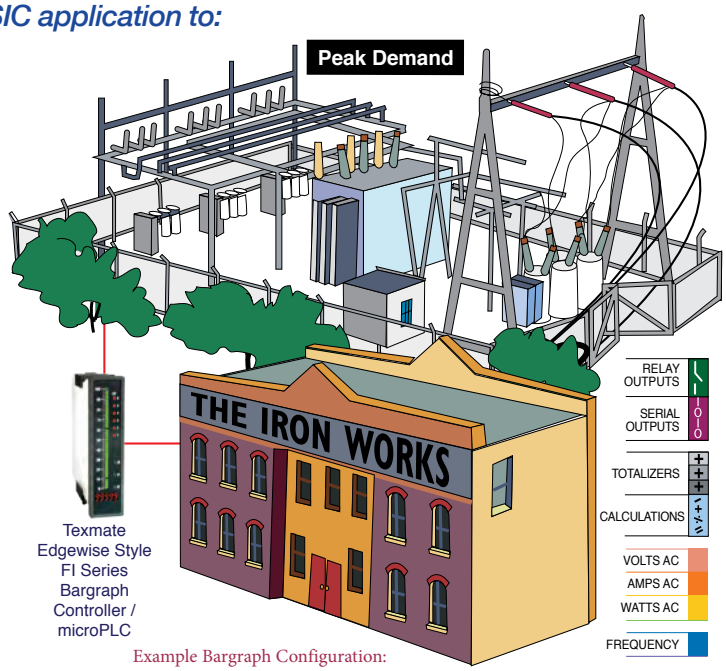
▸ **T**he PC-based Texmate Configuration Utility allows you to easily configure meter operation and copy that setup to other meters.

▸ **Applications include:**

- **solar**
- **power/energy metering/ submetering**
- **conveyor speed control**
- **manufacturing process control**
- **rudder control (+/- from center value)**
- **tank level (bargraph) and fill/dispense rate (digital)**
- **sound level**
- **chemical process pH**
- **heating/cooling**
- **flow rate (bargraph) and total dispensed (digital), etc.**

## *The FI-B101D50T makes an ideal choice for electricity demand and peak demand submetering applications. It is easily configured via a TexBASIC application to:*

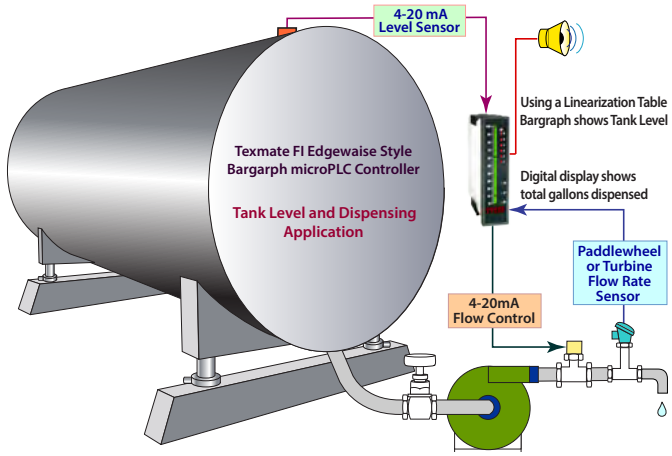
- Show real time Demand (kW) on the bargraph with setpoints showing Demand Charge levels.
- Show current Peak Demand on the digital display.
- A button can be programmed to switch the digital display between Peak Demand and current power consumption (kWh) (for the shift, day or month).
- Using optional OR91 SD card to log each 15 minute averaged Peak Demand for the full monthly billing cycle; download these data via Ethernet and a free Texmate software utility to see when peak demands occur and develop plans to reduce power usage.
- Six LEDs are available to show which Demand Charge levels have been triggered.




Example Bargraph Configuration:
FI-B101D50-VTR-PS1-IW02-S8-OR34

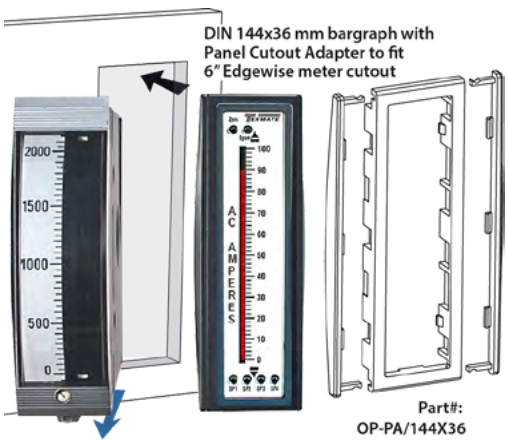
## *Update your Tank Level and Dispensing application to a superior user interface – Edgewise Bargraph!*

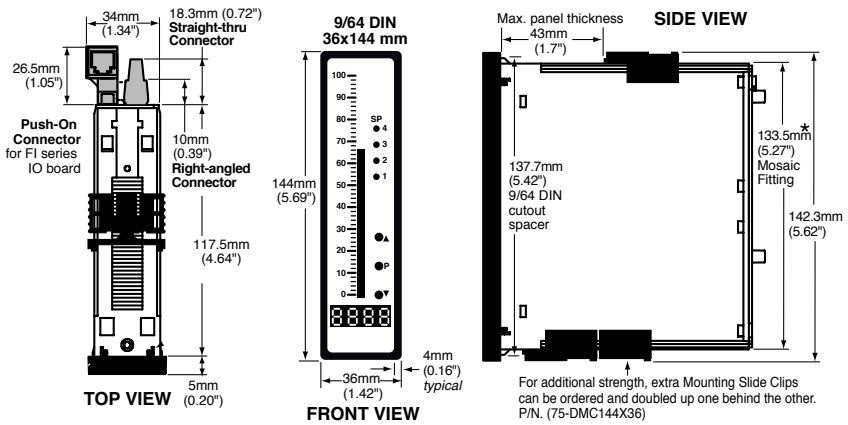
- Use advanced linearization table and show Tank Level on bargraph – easy to read **TRI-COLOR** bargraph can show warning (yellow) and low (red) tank levels.
- Digital Display can show total gallons dispensed.
- Implement a TexBASIC application to allow simple push button selection of set dispensing amounts like 1 gallon, 5 gallon or 10 gallon.
- Alarm output when Tank Level is too low.
- Optional second relay output to control a fill valve for closed loop control




Example Bargraph Configuration:
FI-B101D50T-VTR-PS1-IP10-AIC-R11

## ■ Case Dimension




• For ordering info call: 1-800-TEXMATE or 760 598-9899
• Email: orders@texmate.com

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