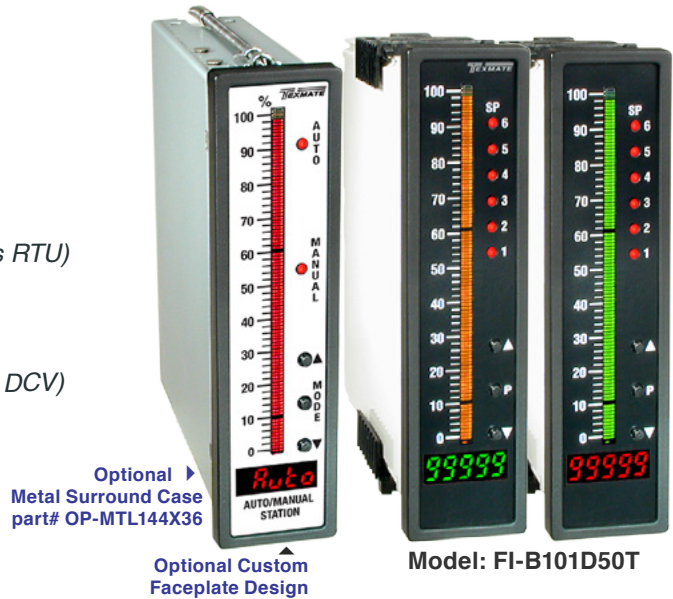




## Edgewise Style Bargraph MicroPLC

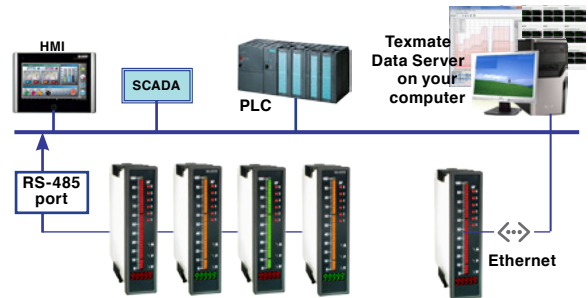


- Upgrade Old Analog Edgewise Meters
- General Monitoring and Control Applications
- Great Visualization of Key Process Measurements
- Independent 5 Digit Display & 101 Segment Bargraph
- Linear and Center Zero (+/-) Bargraph Capability
- Optional RS-232, RS-485 or Ethernet (ASCII or Modbus RTU)
- Multiple 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                  | - Resistance              |
| - AC Volts or Current | - Strain/Load Cell        |
| - DC Volts or Current | - Direct Pressure         |
| - Single Phase Power  | - Displacement / Movement |
| - Process Loops       | - Freq./RPM/Counters      |
| - Thermocouples/RTDs  |                           |



► Enjoy 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).

► The 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.

► Datalogging 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.

► Connect 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

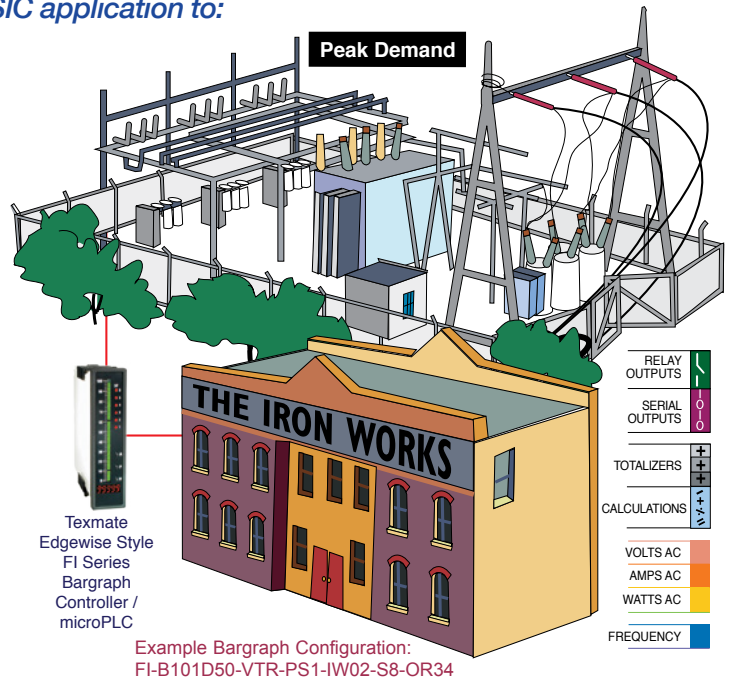
communication, and a simple HMI to your application.

► The 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.

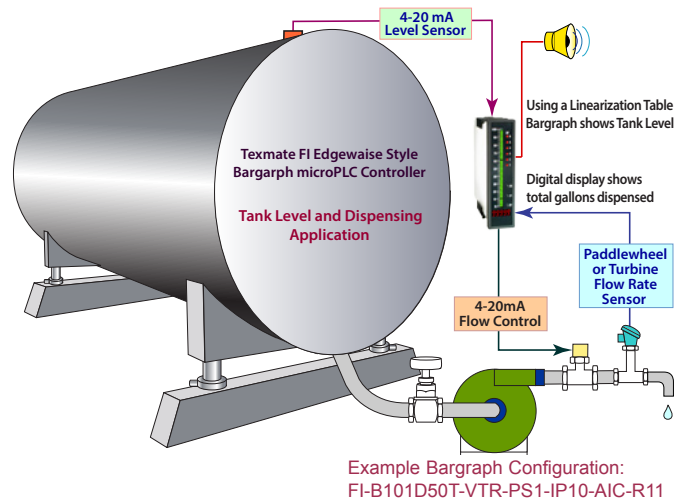
The FI-B101D50T makes an ideal choice for electricity demand and peak demand submetering applications. It is easily configured via a TexBASIC application to:

- 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.



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



■ Case Dimension

