

# Microprocessor Bargraph Display Panel Meter

for Visual Display of Tank Level



measuring  
•  
monitoring  
•  
analyzing

TLI



- 101-Segment LED Bargraph Display
- 24 VDC, 50 mA Sensor Excitation
- 4-Digit, 7-Segment LED Numeric Display
- Input Signal Boards Available for Monitoring mA, mV, AC and DC Voltages
- Output Boards with Isolated Analog Output and Relay Output
- 85-265 VAC or 18-36 VDC Switching Power Supply
- Optional Support for Volume Measurement of Non-linear Tanks
- Up to 6 Relay Outputs
- DIN 3/16 Chassis Size



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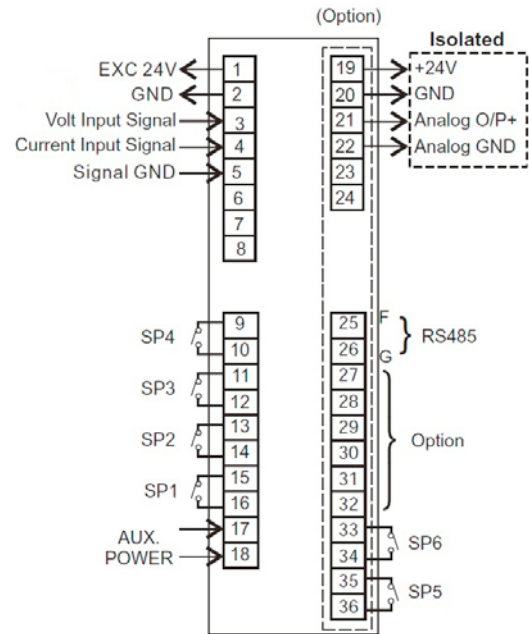
**Description**

The KOBOLD TLI controller and display is designed to allow remote visual representation, control, and numeric value display of tank level when used in conjunction with a suitable sensor producing a linear 4-20 mA current signal output. Several optional input signal variations are possible on all configurations. It utilizes a bright, highly visible 101-segment LED bargraph display and four, 7-segment numeric LEDs. It is completely configurable through the front touch pad. Up to six relay functions are user-selectable and are displayed via the LED set-point indicator. The TLI offers an optional 20-point value conversion for horizontally-mounted, cylindrical tanks. A repeating, (0)4-20 mA or 0-10V (jumper selectable) current output or RS-485 communication interface are available as options.

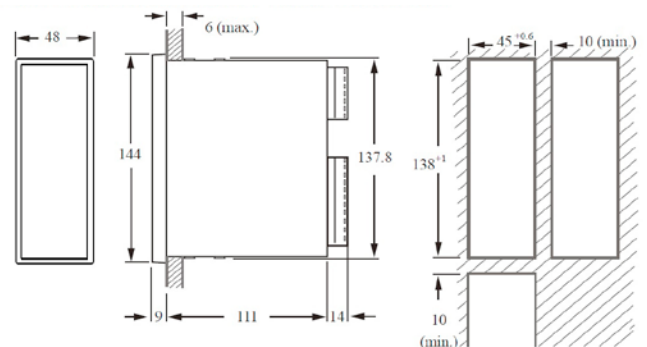
**Technical Details**

- Input Power:** 85-265 VAC or 18-36 VDC
- Sensor Excitation:** DC 24V, 50 mA max.
- Display:** 4-Digits, 0.36" 7-Segment Red LED Display  
101-Segment LED Bargraph
- Display Range:** -1999...+9999
- Over Range Display:** "1" or "-1"
- Input Signal:** 4-20 mA DC Analog
- Accuracy:** 0.1% FS or ± 1 Digit
- ADC Resolution:** 4-1/2 Digit
- Sampling Rate:** 2 Samples/Second
- Relay Contact:** Standard 4 Relays (Optional 6 Relays)  
3A / 250 VAC or 5A / 30 VDC, N.C. / N.O. (Jumper Selectable)
- Analog Output:** Optional 4-20 mA, 0-20 mA, and 0-10 V (Jumper Selectable)
- Communication Port:** Optional RS485 Modbus Protocol
- Operating Condition:** 0...50 °C (20-90% RH Non-Condensing)
- Storage Condition:** 0...70 °C (20-90% RH Non-Condensing)
- Dimensions:** 48 (W) x 144 (H) x 121.5 (D), DIN 3/16

**Terminal Arrangement**



**Dimensions (mm)**



**Order Details (Example: TLI-1471 T 01 4 0 0 0)**

Model	Power Supply	Input Signal	Relay Contact	Non-Linear Function	Analog Output	Communication
TLI-1471..	..S.. = 85-265 VAC ..T.. = 18-36 VDC	..01.. = 4-20 mA DC	..4.. = 4 Relays ..6.. = 6 Relays	..0.. = Without (Standard) ..1.. = Supports 20 Pt. Vessel Conversion	..0.. = Without ..2.. = 0/4-20 mA or 0-10V Output (Jumper Selectable)	..0 = Without ..1 = Supports RS485 Interface