



LEOPARD FAMILY

# TEXMATE

## TL

### Leopard Series Transmitter

**An economically smart programmable transmitter relay with isolated 4 to 20 mA retransmission or control loop output capability for measurement and control applications.**

#### General Features

- External transmitters or signal conditioners can be eliminated by direct connection of the sensor output to more than 38 Plug-in Input Signal Conditioners that include:
  - AC/DC Current
  - AC/DC Voltage
  - Load Cell
  - Pressure
  - Process
  - Prototype
  - Resistance
  - \*Temperature
  - 4 to 20 mA
- \*See models TLH for higher accuracy digitally linearized thermocouple and RTD
- Isolated 16 bit analog output. User or factory scalable to 4 to 20 mA, 0 to 20 mA or 0 to 10 V across any desired digital span from  $\pm$  one count to the full scale range of – 1999 to 9999 (12000 counts).
- Auto-sensing AC/DC power supply. For voltages between **85-265 V AC / 95-300 V DC (PS1)** or 15-48 V AC / 10-72 V DC (PS2).
- 24 V DC excitation is available to power external transmitters and 5 or 10 V DC excitation is available for resistance bridge type sensors such as Load Cells and Pressure Transducers.
- Automatic intelligent averaging smooths noisy signals, while providing a fast display response to real level changes.
- Remote Display Option only.

#### Software Features

- Three-button programming from the optional remote display (UP, DOWN and PROGRAM buttons).
- Front panel selectable four-level brightness control of digital display, and setpoint LEDs when display is used.
- Two programmable setpoints.
- Relay activation can be selected to occur above (HI) or below (LO) each setpoint.
- Hysteresis, Delay on make and delay on break for both setpoints.
- Peak and Valley. View and Reset.(only when display is used)

#### Input Module Compatibility

**LEOPARD FAMILY:** More than 38 different Plug-in **I-Series** Input Signal Conditioners are approved for Texmate's Leopard Family of meters.

See [www.texmate.com](http://www.texmate.com) for an up to date listing.



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#### Specifications

**Input Specs:** .....Depends on Input signal conditioner  
**A/D Converter:** .....14 bit single slope  
**Accuracy:** ..... $\pm(0.05\%$  of reading + 2 counts)  
**Temp. Coeff.:** .....100 ppm/ $^{\circ}$ C (Typical)  
**Warm up time:** .....2 minutes  
**Conversion Rate:** .....5 conversions per second (Typical)  
**Remote Display:** .....**4 digit 0.56" Red LED Remote display. (Optional)**  
 Range –1999 to 9999 counts.  
**Polarity:** .....Assumed positive. Displays – negative  
**Decimal Selection:** .....Front panel button selectable, X•X•X•X•  
**Positive Overrange:** ..Top segments of digital display flash  
**Negative Overrange:** ..Bottom segments of digital display flash  
**Relay Output:** .....Two 9 Amp Form C relays.  
**Analog Output:** .....Isolated 16 bit user scalable mA or V  
 AIC (mA out) .....4-20 mA @ 0 to 500 $\Omega$  max loop resistance  
 AIV (volts out) .....0-10 V DC @ 500  $\Omega$  or higher resistance  
**Power Supply:** .....AC/DC Auto sensing wide range supply  
**PS1 (std)** .....**85-265 VAC 50-400Hz / 95-300 VDC @ 3.5W**  
**PS2** .....15-48 VAC 50-400Hz / 10-72 VDC @ 3.5W  
**Operating Temp.:** .....0 to 50  $^{\circ}$ C  
**Storage Temp.:** .....–20  $^{\circ}$ C to 70  $^{\circ}$ C.  
**Relative Humidity:** .....95% (non condensing)  
**Case Dimensions:** .....DIN Rail Mount  
 22.5mm x 102.4mm x 128.7mm  
 (Width x Height x Depth)  
 Plus 11.8 mm (0.47") for Right-angled connectors.  
**Weight:** .....6.5 oz., 8.5 oz when packed