

# LT-200XP: FLOW MEASUREMENT REMOTE INDICATOR / TOTALIZER



## FEATURES:

- Battery Powered  
(other power sources available)
- Temperature Compensation
- 20 pt. Linearization
- Independent Rate Indication  
/ Totalization Engineering Units
- Multi-Meter Functions to Read  
Battery Voltage, RTD, Frequency,  
and Simulate 4-20 mA
- High / Low Alarms
- Backlight



**ACCURATE MEASUREMENT**

1138 Wall Road  
Broussard, LA 70518  
1-800-456-1453

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## Enclosure:

- Explosion Proof Aluminum
- FM Approved, CSA Certified
- Class I, Division 1, Groups B, C, & D
- Class II, Division 1, Groups E, F, & G
- NEMA 4
- Weight: 2.5lbs.
- Mounts directly on Flowmeter

## Compliance:

- CE
- UL (pending)
- CSA (pending)

## Other Features:

- EEPROM parameter/setup storage (>100 year retention)
- All features/settings are field programmable. Convenient input via rotary switch and two pushbuttons
- MMC Flash media card data logger (available soon)

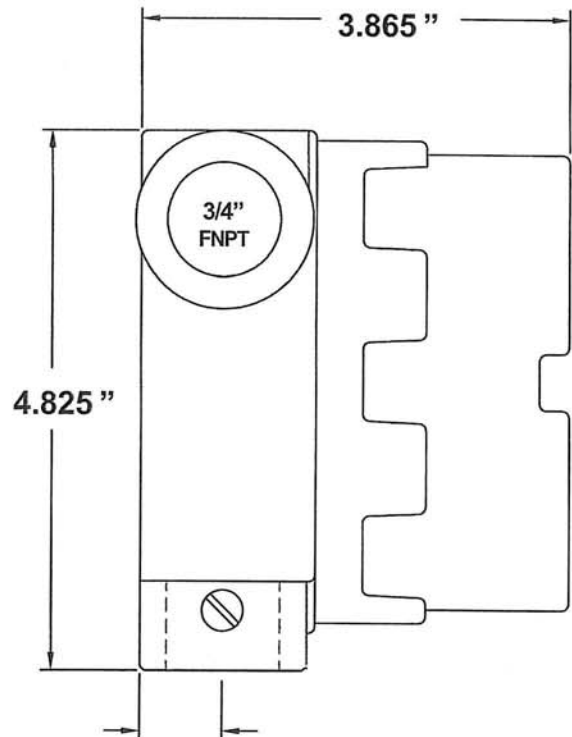
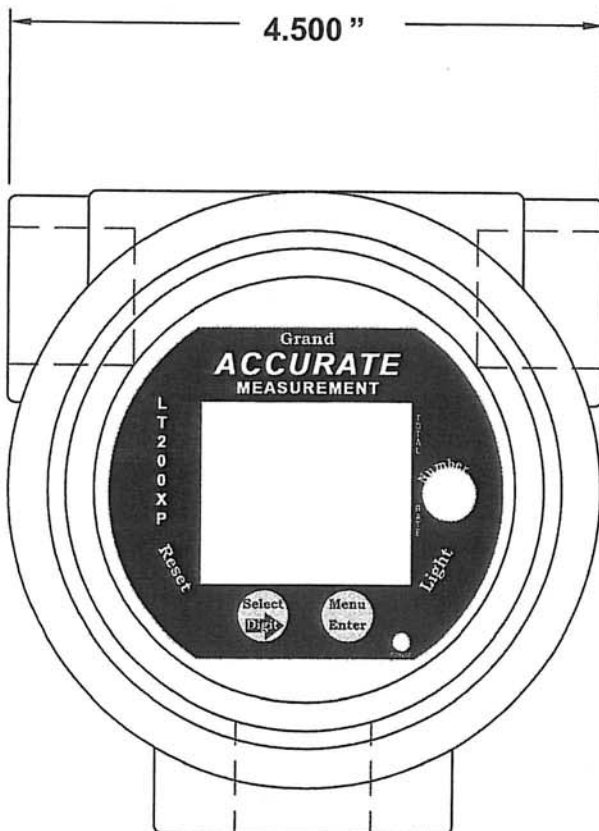
## Annunciators:

- Dual segment battery level indicator
- Maintenance due indicator
- Temperature range indicator (with Temperature Compensation option)

## Environmental:

- Operating: -22 to 167°F (-30 to 75°C)
- Storage: -40 to 185°F (-40 to 85°C)

## DIMENSIONS:



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## Total:

- 8 digit 5.40mm high LCD (continuous display)
- Batch total (external reset – magnetic)
- Grand total (no reset)

## Rate:

- 5 digit 8.66mm high LCD (continuous display)
- Range over/under limit indication
- Refresh rate: Multiple depending on power mode (16/s, 8/s, 4/s, 1/s, 0.5/s)

## Accuracy:

- *Display:*  $\pm 0.01\%$  Reading (rate) or  $\pm 1$  count (total)
- *Analog output:*  $\pm 0.025\%$  of Full Scale @20°C
- *Digital output:*  $\pm 1$  count

## Linearization:

- Linearization table, 2-20 points

## Power input:

*Internal:* D Lithium battery

- Battery life: Various: typical per power mode: Up to 8 years

*External:* 5-48VDC reverse polarity protected

*Loop:* 7v load on loop

- Loop powered from the 4-20mA loop input (non-isolated)

## Signal Input (flow):

*Magnetic:* Sensitivity: 50mV min (field adjustable); Frequency: 0-3000Hz

*RF modulated:* Carrier frequency 50kHz (requires external power or loop power); Frequency: 0-3000Hz

*Pulse:* Any zero reference or zero crossing wave shape; Frequency: 0-4000Hz

## Temperature Compensation:

- Two wire RTD
- Coefficient of Thermal Expansion method

## Outputs:

### *Scaled Pulse*

- Opto-isolated Open-Collector output
- Frequency or fixed pulse width (1, 2, 5, 10, 50, 100, & custom ms) output setting
- Output pulse Divider: 1, 2, 5, 10, 50, 100, 1000, & custom

### *Alarm (optional)*

- Programmable Opto-isolated Open-Collector output
- Can be used to control totalization

### *Rate (4-20mA)*

- Factored rate to current loop output
- Programmable low and high set points
- Fully isolated (unless loop powered)

**K-Factor range:** Pulses per gallon: 0.0000001 to 999999

**Backlight:** Green LED (magnetically activated and timed)

**Communications:** RS-232

## Engineering Unit Display:

- Custom Descriptors: Gallons, Liters, Ft<sup>3</sup>, M<sup>3</sup>, Pounds, BBL, KG (custom weight available)
- Custom units available with given units/gallon
- Rate and Total can have independent unit displays

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## Services

- Field Service
- Calibration
- Repair
- Customer Service
- Training and Education
- Technical Support

## Our Commitment to Quality

We are committed to designing, manufacturing, and calibrating the highest quality flow measuring products. All associates share this commitment to continual improvement, customer satisfaction, and quality.

Manufacturing operations include precision machining and electronics manufacturing combined with rigid, comprehensive calibration and testing procedures. These operations insure that every product conforms to the highest quality standards and applicable regulatory requirements. With commitment to competitive pricing, devotion to quality, superior customer service, and a reliable delivery of products, we strive to combine technologically, innovative products with the highest rate of reliability.



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