

Ranger Elite™ LTRE

ULTRASONIC LEVEL TRANSMITTER DATA SHEET



DESCRIPTION

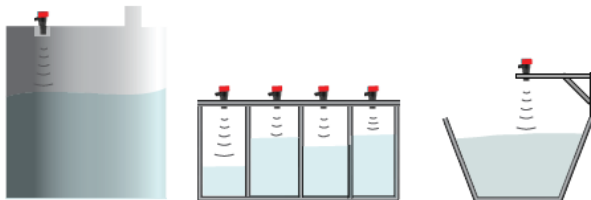
The Ranger Elite™ Ultrasonic Level Transmitter provides accurate non-contacting level measurement up to 480" (12m) and features Two-Wire Loop-Powered 4-20 mA Analog Output. The adaptive signal and automatic echo detection & control provides effortless and accurate level measurements in one non-contacting transmitter. The 2" NPT mount on the transducer makes mounting into a standard tank nozzle or fitting easy and affordable. The operator interface uses a 4 line graphic display that allows for easy level indication and configuration. The push buttons on the front face are easy to navigate even without using a programming manual. Plus, the HART communications output talks directly to the standard Tracer Talker™ Software to configure, monitor and data log your application. Download the free Tracer Talker software and purchase one communication tool.

FEATURES & BENEFITS

- Easy installation and start-up
- Large 4 line graphic display
- Standard HART Communication interface
- Durable powder coated aluminum housing for long life
- 2" NPT threaded process connection
- Short 8" dead band and up to 40 feet measurement range
- Adjustable filters compensate for tank mixers or turbulence
- Temperature compensation for improved accuracy
- Adjustable sensitivity & gain plus auto-tuning signal process

TYPICAL APPLICATIONS

- Pump Stations
- Wet Wells
- Tanks
- Chemical Storage
- Power Generator Fuel Storage
- Water Towers
- Basin Levels
- Sumps
- Shipping Containers
- Plating Chemical Tanks



SPECIFICATIONS

Frequency	50 kHz
Operating Voltage	7-28VDC at the terminal (residual ripple no greater than 100mV)
Power Consumption	500mW @ 24VDC
Analog Resolution	14 bits
Communications	4-20mA with HART
Blanking Distance	10 inch (250mm)
Maximum Range	40 ft. (12m)
Resolution	0.04 inches (1mm)
Electronic Accuracy	± 0.25% of maximum range
Operating Temperature	-40°F to 140°F (-40°C to 60°C)
Maximum Operating Pressure	0 - 44 PSI (-0.5 to 3 bar)
Beam Angle	7°
Materials	<ul style="list-style-type: none"> • Transducer PVDF • Housing Powder coated aluminum
Display	4 line graphic display
Keypad	4 keys = CAL, RUN, UP, DOWN
Memory	> 10 years data retention
Enclosure Sealing	IP67
Cable Entries	M20 Cable Glands
Mounting	2" NPT
Typical Weight	2.2 lbs (1kg)
Volume	<ul style="list-style-type: none"> • Pre-set common vessel shapes • 32 point programmable linearization table • Requires PC connection with Tracer Talker™ Communication Software

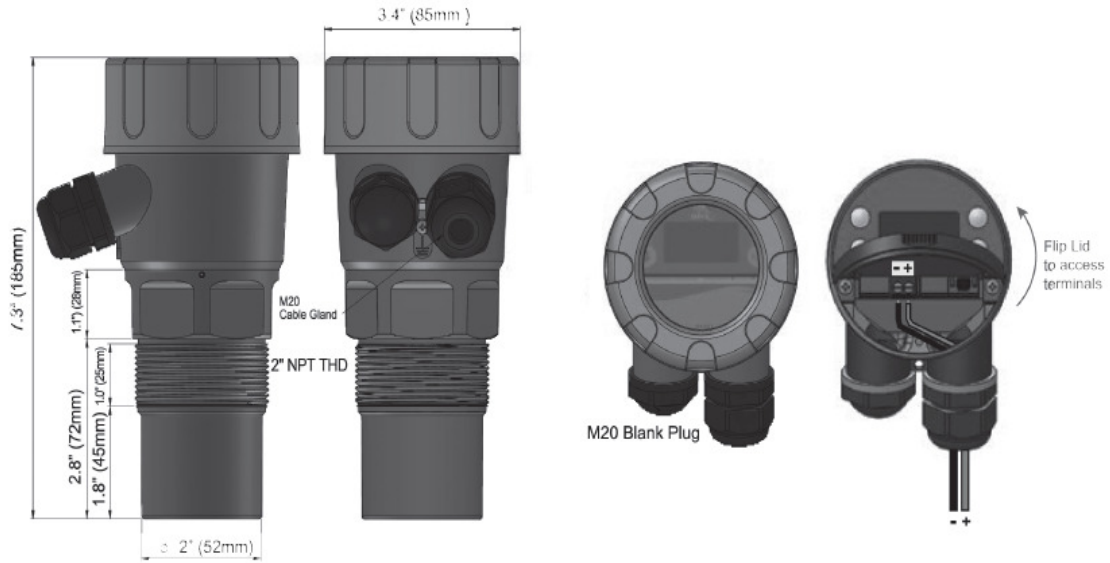
Specifications are subject to change without notice.

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Ph: 864-848-3993

Fax: 864-848-9569

DIMENSIONS inches (mm)



RANGER ELITE™ FACEPLATE



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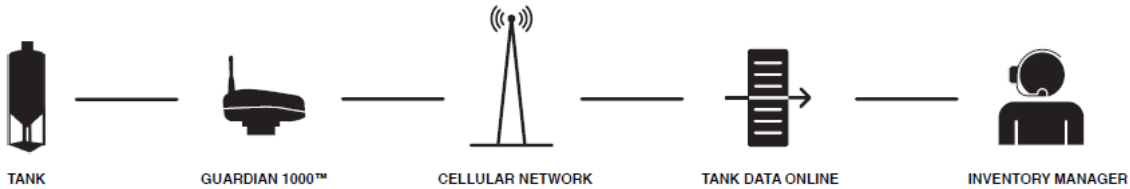
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WIRELESS MONITORING OPTION

In order to wirelessly monitor your application, add the Guardian 1000™ to your Ranger Elite™ Ultrasonic Level Transmitter. The Guardian 1000™ is a cellular tank level monitoring system that delivers reliable daily measurements both scheduled and event driven. Remote monitoring with the Guardian 1000 is exceptionally flexible eliminating the hassles of network infrastructures and internet service. Instead, the Guardian 1000 connects wirelessly to cellular networks and transmits alarms, inventory, battery status and GSM signal strength, all of which are available through FLO-CORP's website. The Guardian 1000 includes an extended battery pack with two year battery life. By providing the Guardian 1000 with a 4-20mA signal and cellular network coverage, you will have data readily at your fingertips using Guardian Online on your computer, tablet, or smartphone.



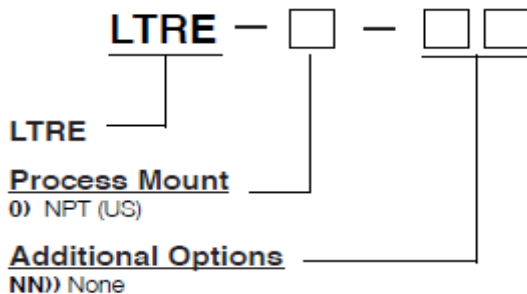
HOW IT WORKS



Ordering Information

Use the diagram below, working from left to right to construct your FLO-CORP Model Number. Simply match the category number to the corresponding box number.

Example: **LTRE-0-NN** Ranger Elite™ Ultrasonic Level Transmitter with 2" NPT Process Connection and 8" to 480" Measuring Range



Ordering Notes:

(1) For wireless monitoring option add Guardian 1000™ to order

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