

# UltraPro<sup>®</sup> 2000 Series

## Ultrasonic Continuous Level Transmitter



- ✔ Push Button Programming | Field Adjustable
- ✔ Narrow Beam Technology
- ✔ NO Programming FOB or Computer Required



### Product Description

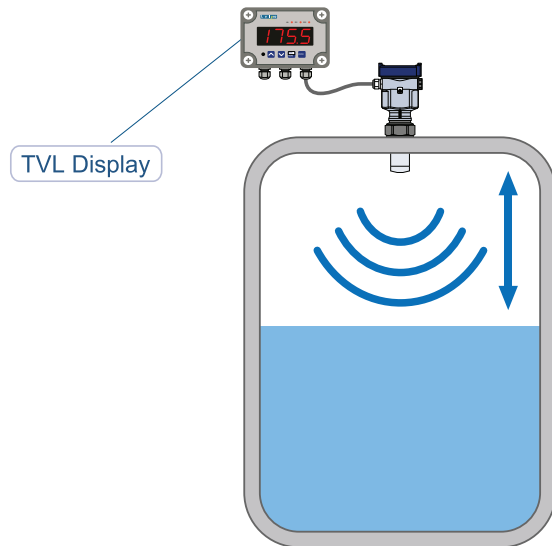
The UltraPro<sup>®</sup> 2000 Ultrasonic Level Transmitters are 2-Wire loop powered sensors designed to provide reliable and accurate continuous liquid level measurement.

The UltraPro<sup>®</sup> 2000 Series are very reliable and offer both 4-20mA analog output with HART protocol or RS-485 Modbus.

Some key applications for the UltraPro<sup>®</sup> 2000 include: Chemical Storage Tanks, Waste Sumps, Bulk Storage, Tanker Trucks, Day Tanks, Process Tanks, Neutralization Tanks, and Wastewater applications.

The UltraPro<sup>®</sup> 2000 Series are designed to work with most types of remote instrumentation such as remote displays and remote monitoring solutions.

### Working Principle



### Optional Local Display

- ✔ Visual Level Indication
- ✔ LCD Display
- ✔ Simple Programming
- ✔ Loop Powered



### Features

- ✔ Up to 0.15% Accuracy
- ✔ Small Dead Band
- ✔ Simple Programming | Under 1 minutes
- ✔ Loop Powered | 2 Wire 4-20mA Output
- ✔ Explosion Proof Option



### General

Operating Range	0.1 to 33 ft	0.03 to 10 m
Working Frequency	4-20mA	
Resolution	<1mm   0.04"	
Accuracy	5m   0.2%    10m   0.15%	
Temperature Error	Max 0.04%   K	
Max Overpressure	0.1MPa	
Beamwidth	Size Dependant	
Measuring Period	1m{0.5s} 2m{0.5s} 6m{1.2s} 10m{1.2s} 20m{5s}	
Max.Current Output Load	@ U = 24VDC Rmax = 270   @ U = 22VDC Rmax = 180   @ U=20VDC Rmax = 90	
Delay Between Rise Time	1m{5s} 2m{5s} 6m{5s} 10m{9s} 20m{9s}	
Min. Voltage Load	Rmin > 1k Ohm	
Enclosure Rating	NEMA 4X   IP67	

### Materials

Sensor Body	PTFE TEFLON <sup>®</sup>
O-Rings	FKM
Housing	ABS

### Electrical

Output	4-20mA (Limit values 3.9 - 20.5mA), HART RS-485 with protocol Modbus RTU	
Supply Voltage	18 to 36 VDC ±10% regulated	
Supply Current	4-20mA   Max 22mA	0 - 10V (limit values 0 - 10.2V)

### Operating Temperature

PTFE	-22°F to 158°F	-30°C to 70°C
ABS	32°F to 140°F	0°C to 60°C

### Standards and Approvals

CE   FCC
RoHS Compliant

### Model Selection

Connection	Range	Part Number
2" Threaded	15ft   5m	UPS-2000-05
2" Threaded	33ft   10m	UPS-2000-10