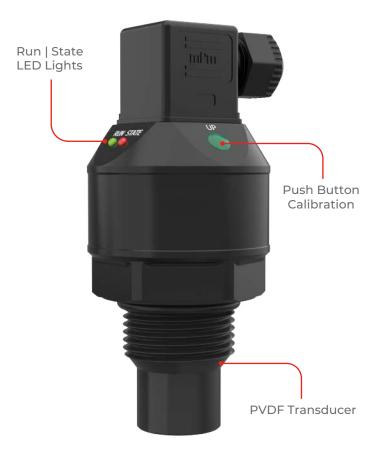
UltraPro® 500 Series

Ultrasonic Continuous Level Transmitter





Features

- ♥ Up to 0.15% Accuracy
- Small Dead-Band

Optional Local Display

- No Programming
- Loop Powered



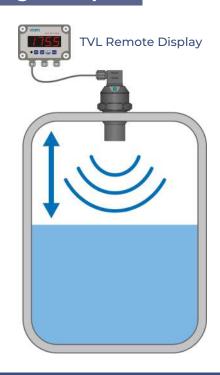
Product Description

The UltraPro® 500 Series Ultrasonic Level Transmitters are 2-Wire loop powered sensors designed to provide reliable and accurate continuous liquid level measurement.

The UltraPro® 500 Series are very reliable and offer both 4-20mA analog output with HART protocol or RS-485 Modbus. Some key applications for the UltraPro 500 include: Chemical Storage Tanks, Waste Sumps, Bulk Storage, Tanker Trucks, Day Tanks, Process Tanks, Neutralization Tanks, and Wastewater applications.

The UltraPro® 500 Series are designed to work with most types of remote instrumentation such as remote displays and remote monitoring solutions.

Working Principle



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Specifications

Operating Range	0.1 to 65 ft	0.03 to 20m
Resolution	<1mm 0.04"	
Accuracy	1m 0.2% 2m 0.15% 6m 0.15% 10m 0.2% 20m 0.2%	
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 > $1k\Omega$	
Enclosure Rating	NEMA 4X IP67	

Operating Temperature

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

Materials

Sensor Body	PVDF
O-Rings	FKM
Housing	ABS

Electrical

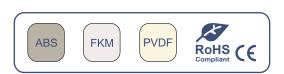
Output	4-20mA (Limit values 3.9 - 20.5mA), HART RS-485 with protocol Modbus RTU 18 to 36 VDC ±10% regulated	
Supply Voltage		
Supply Current	4-20mA Max 22mA	0 - 10V (limit values 0 - 10.2V)

Standards and Approvals

CE | FCC RoHS Compliant

Model Selection

Connection	Range	Part Number
3/4" Threaded	1m 3.3ft	UPS-500-01
1" Threaded	2m 6.6ft	UPS-500-02
1 1/2" Threaded	6m 19.7ft	UPS-500-06
2 1/4" Threaded	10m 32.8ft	UPS-500-10
3" Flanged	20m 65.6ft	UPS-500-20



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