

- ❑ 2 Button Programming | Field Adjustable
- ❑ Narrow Beam Technology
- ❑ NO Programming FOB | Computer Required



Run | State LED Lights

Green = Good  
Red = Lost

Push Button Calibration

PVDF Transducer

### Product Description

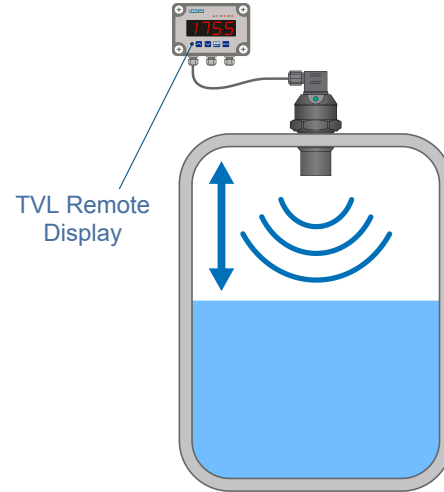
The UltraPro 500 Ultrasonic Level Transmitters are 2-Wire loop powered sensors designed to provide reliable and accurate continuous liquid level measurement.

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



TVL Remote Display

### Optional Local Display

- ❑ Local LED Display
- ❑ No Programming
- ❑ Loop Powered
- ❑ Field Mount



### Features

- ❑ Up to 0.15% Accuracy
- ❑ Small Dead-Band
- ❑ Simple Programming | Under 2 minutes
- ❑ Loop Powered | 2 Wire 4-20mA Output
- ❑ Explosion Proof | Class 1 Div 1
- ❑ Available Field Adjustable Set-Points
- ❑ Up to 60 ft | 20m Measuring Range

ABS

FKM

PVDF



### Specifications

#### General

Operating Range	0.1 to 65 ft	0.03 to 20 m
Working Frequency	4-20mA	
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 Ohm	
Enclosure Rating	NEMA 4X   IP67	

#### 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	
Supply Voltage	18 to 36 VDC ±10% regulated	
Supply Current	4-20mA   Max 22mA	0 - 10V (limit values 0 - 10.2V)

#### Operating Temperature

PVDF	-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
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