

- ❑ 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

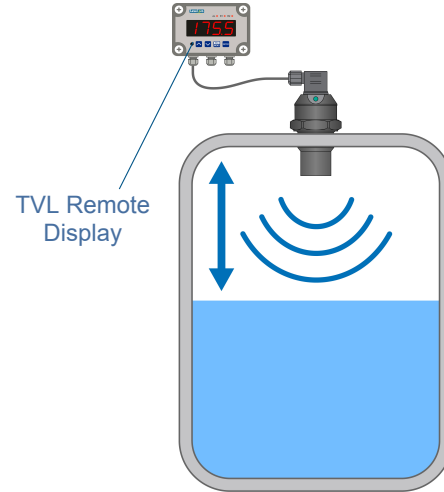
The UltraPro 500 Ultrasonic Level Transmitters are 2-Wire loop powered sensors designed to provide reliable and accurate continuous liquid level measurement.

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 |

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