

Ultrasensor™-SP

Configurable Liquid Level Sensor

Models ULTRA-SP
ULTRA-SP-BP

**Non-Contact
Ultrasonic
Level
Measurement**

Ultrasensor™-SP provides non-contact level measurement for a variety of liquid level applications. It can be used to either monitor or control liquid levels. Option modules install internally to provide a sensor tailored to many different applications. Measurements can be displayed remotely or outputs connected to almost any control system. Simple setup is provided by an internal pushbutton and/or computer software options.

Easy to Install

Thread ULTRA-SP into the Senix UA-FM 2" NPT flange, or bolt ULTRA-SP-BP over an open-air liquid environment. Bring wiring in the conduit entry and attach your equipment to the internal terminal blocks. Adjust analog and switch setpoints using actual liquid levels (internal pushbutton) or optional SoftSpan™ software - Ultrasensor™ automatically spans and polarizes the analog outputs between them, or sets switch setpoints.

Software Option

Many standard features can be engaged or adjusted using SoftSpan™ to assist installation. These include output scaling, rate of measurement, special filters for problem situations, temperature compensation, etc. Measurement displays include distance, strip chart history and statistics. You can also log data to a disk file for later analysis.

After installation you can store the sensor setup in the PC's disk for later recall to simplify duplication or field replacement. Setups can be duplicated in 15 seconds!



Features

- Robust transducer element specifically for liquids
- Range 8 inches to 37ft.
- Self-contained enclosure
- 2" NPT or backplate mount
- Modular construction uses ULTRA-S option modules
- Interface options include analog outputs, relays, AC power, RS-232/485
- Rugged PVC case
- Conduit entry
- Terminal block wiring
- 15-30 VDC or optional 115VAC power input
- Serial data output for remote display or communications
- High Resolution
- Simple setup via pushbutton and/or optional software

Options

Analog Outputs

- Voltage & current, non-isolated
- Voltage & current, optically isolated

Dual Relay/Switch Outputs

- (2 modules max = 4 relays max)
- Dry contact form-C relays
 - Opto isolators
 - AC solid state relays
 - DC solid state relays

AC Power Modules

- 115 VAC input module
- 230 VAC input module

Level Display

- User scalable, 6-digit LED, remote mounted, digital data connection, NEMA4x, 1/8 DIN mounted

Other Options

- Remote temperature sensor for compensation
- Flange mount
- SoftSpan™ setup software for DOS or Windows



ULTRA-SP (shown above with Senix UA-FM flange) For flange mounting to closed top tank with Senix flange.



ULTRA-SP-BP For open-air level measurement. Sensor backplate bolts to supporting structure.



UA-TD-422 Level display option

**SoftSpan™
Screen Shot**

