Ultrasensor™-SPA

Configurable Distance/Level Sensor with Snub Nose

Models ULTRA-SPA
ULTRA-SPA-BP

Non-Contact Ultrasonic Height/Level Measurement

Ultrasensor™-SPA provides non-contact measurement in a variety of height or material level applications. The transducer assembly differs from the standard ULTRA-SP, and is designed to minimize dust accumulation in dry materials applications. Option modules install internally to provide a sensor tailored to your exact needs. 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.

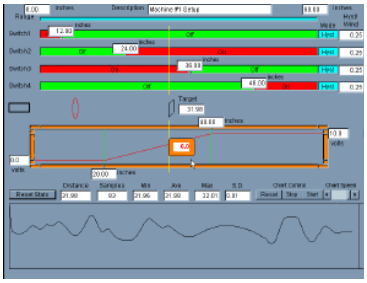
Easy to Install

Aim and mount the ULTRA-SPA at the target. Bring wiring in the conduit entry and attach your equipment to the internal terminal blocks. Adjust analog and switch setpoints using actual targets (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!



SoftSpan™ Screen Shot

Features

- Robust transducer element specifically for liquids
- Range 8 inches to 37ft.
- Self-contained enclosure
- 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 or optional software

Options

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

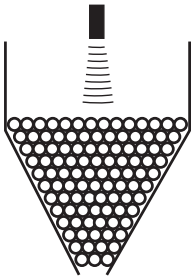
Dual Relay/Switch Outputs
(2 modules max = 4 relays max)
- Dry contact form-C relays
- Opto isolators
- AC solid state relays
- DC solid state relays

AC Power Modules
- 115 VAC input module
- 230 VAC input module

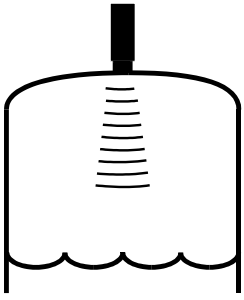
Distance/Level Display
- User scalable, 6-digit LED, remote mounted, digital data connection, NEMA4x, 1/8 DIN mounted

Other Options
- Remote temperature sensor for compensation
- SoftSpan™ setup software for DOS or Windows

Solid Level



Liquid Level



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

ULTRA-SPA
Sensor without backplate for special mounting situations.

UA-TD-422 or UA-TD-232
Distance/Level display option

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