

Ultrasonic Non Contact, Continuous Level Measurement

Gauges for Liquids, Solids and Open Channel Flow

SmartScan® 25 and SmartScan® 50 are non-contact, continuous ultrasonic level measuring devices for installation in various types of tanks and vessels. Drawing on patented technology. The SmartScan products deliver automatic temperature compensation for vapors, gases and wind to provide the highest accuracy.

Self-calibrating and virtually immune to changing conditions, SmartScan products provide a unique combination of strength, performance, and value.



Advantages

- Highly cost effective solution
- Fast set-up time saves installation cost
- Reliable operation
- Reduced stock inventory
- Efficient control and management of processes utilizing internal smart relays
- Easy installation saves time and cuts down costs
- Single source for a complete product line

Main Features

- Applicable for liquids, solids and open channel flow measurement
- Up to 40 meters Long rang measurements with high accuracy
- Very light weight and compact sensors
- Automatic temperature compensation
- Extensive software package including total flow, volume and paper roll diameter measurement options
- 5 independent SPDT relays
- Available as a single-sensor or a multi-sensor unit with two or three sensors and level difference
- Patented technology enables low energy and power consumption
- Zero calibration and zero maintenance

Applications

Chemical processes
Petrochemicals
Food · Beverage
Water · Wastewater
Pharmaceutical
Pulp · Paper
Plastics
...and more

Data Sheet SmartScan® 25 50

Model

SmartScan 25

SmartScan 50

Applications	Liquid, Solid, Open Channel Flow	Liquid, Solid, Open Channel Flow and Paper Roll Diameter
Measuring Ranges	Liquids. Flow Standard Range: 0.6 - 25 m (2 - 82ft) Long-Range: 0.6 - 40 m (2 - 131ft) Solids Standard Range: 0.6 - 20 m (2 - 65.6ft) Long-Range: 0.6 - 30 m (2 - 98ft)	Liquids. Flow 0.4 - 12 m (1.3 - 39.4 ft) Solids 0.4 - 8.5 m (1.3 - 28 ft) Diameter 0.5 - 2.5 m (1.6 - 8.2 ft)
Measurement Accuracy	SmartScan 25L, 25S, 250 - 0.25% of measuring range	SmartScan 50L, 500 - 0.2% of measuring range SmartScan 50S - 0.25% of measuring range SmartScan 50D - 0.1% of measuring range
Resolution	1 mm (0.04 inch)	1 mm (0.04 inch)
Power Supply	24 VDC (0.25A max); 100-240 VAC, 50/60Hz, 70mA Max.	24 VDC (0.25A max); 100-240 VAC, 50/60Hz, 70mA Max.
Load	750 ohm @24VDC	750 ohm @24VDC
Current Output Range	4-20mA	4-20mA
Housing Type	Two Parts	Two Parts
Housing Material	ABS + UV	ABS + UV
Mounting Option	1" BSP/NPT, 2" BSP/NPT (depend on sensor)	1" BSP/NPT
Temp' range	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)
Ambient Temperature Compensation	Integral	Integral
Enclosure Rating	IP 67/ IP 65	IP 67/ IP 65
Beam Angle	5° @ 3db point	5° @ 3db point
Sensor Type	25 KHz	50 KHz
Sensor - Operating Temp'	-40°C to +80°C (-40°F to +176°F)	-40°C to +100°C (-40°F to +212°F)
Sensor Material	Stainless steel, Coated Aluminum	Glass reinforced Epoxy
Sensor Housing	PP (PVDF: optional)	PP (PVDF: optional)
Display	LCD (6 digits)	LCD (6 digits)
Communication	RS485/ RS232	RS485/ RS232
Interface	Modbus*, HART*	Modbus*, HART*
Relays	5 Independent SPDT	5 Independent SPDT
Relays Trigger Points	10 Points	10 Points
Enclosure Weight	1.1 Kg (2.4 lb)	1.1 Kg (2.4 lb)
Sensor Weight	Up to 0.4 Kg (depends on the range) (0.88 lb)	0.5 Kg (1.1 lb)
Enclosure Dimensions	246 mm x 200mm x 84mm	246 mm x 200mm x 84mm
Sensor Dimensions	Up to 143.7mm x 70mm x 84.7mm	124 mm x 71 mm x 65 mm
Extension Cable Length	Up to 200 m (656 ft.)	Up to 200 m (656 ft.)
Certifications	CE, FCC, CSA*, FM*, ATEX	CE, FCC, 3A, CSA*, FM*, ATEX*

* Consult factory for availability



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Specifications are subject to change without notice