

SmartScan 50™

SmartLite™

SmartScan 25™

4-wire, 2-part ultrasonic continuous level measurement of liquids, open channel flow and solids.

SmartScan™ non-contact ultrasonic continuous level measurement of liquids, solids and open channel flow, sets new standards in reliability, repeatability, and accuracy under extremely harsh conditions. Drawing on Patented technology, SmartScan™ supports a full range of process monitoring and storage level measurement applications. The SmartScan™ family of products includes SmartLite™, SmartScan™ 50 and SmartScan™ 25 covering a full application range of the target industries: water, wastewater, petrochemical, chemical, food and beverage. The SmartScan™ Family is approved for installation in Hazardous areas (Ex) and supports the Modbus RTU communication protocol.

The Smart family Offers

- RS-485 or RS-232 and 4-20mA communication
- Installation in hazardous areas (Ex)
- Easy Installation and Handling
- Graphic LCD with 6 digits and multiple indications
- The control unit can be located up to 200m away from the sensor

SmartLite™

- Our entry level cost effective product
- Designed for liquid applications
- Excellent chemical resistance (PVDF or Polypropylene are available)
- 2 SPDT Relays
- Modbus (read only)

SmartScan™ 50

- Designed for challenging harsh environment:
 - Overcomes vapors, agitators and light foam
 - High temperature range (-40°C to 90°C, -40°F to +194°F)
 - Pressure up to 5 Bar
 - Approved for installation in hazardous areas (Ex)
- Perfect for waste water applications and Open Channel Flow measurements
- Measuring range up to 12m / 93.4 ft
- May be applied in liquid, solid and open channel flow applications
- Modbus RTU
- Five independent SPDT relays
- Embedded firmware for advanced calculations of volume and flow totalization
- Rapid response with high accuracy

SmartScan™ 25

- Extended range applications - up to 40 meters / 131 ft
- Best fit high process tanks, large storage vessels, for dust free Solids
- Modbus (read only)
- Five independent SPDT relays
- Embedded firmware for advanced calculations of volume and flow totalization



Applications

Water & Waste water
Chemical processes
Petrochemicals
Food & Beverage industries

Data Sheet



Model	SmartScan50™	SmartLite™	SmartScan25™
Type	Ultrasonic 4-wire	Ultrasonic 4-wire	Ultrasonic 4-wire
Max range for liquids	12 meter / 39.4ft	10 meter / 32ft	40 meter / 131ft
Max range for solids	8.5m/28ft	-	30m/98ft
Min range	0.40 meter / 1.3ft	0.60 meter / 2ft	0.60 meter / 2ft
Measuring accuracy	0.2% of max range* (2.4cm max)	0.25% of max range* (2.5cm max)	0.25% of max range* (6.25 cm max)
Transmission frequency	50KHz	25KHz	25KHz
Power Supply	18-30VDC or 100-240VAC (option)	18-30VDC or 100-240VAC (option)	18-30VDC or 100-240VAC (option)
Load	750 ohm@24VDC	750 ohm@24VDC	750 ohm@24VDC
Output signal	4 - 20mA	4 - 20mA	4 - 20mA
Communication	RS-232\RS-485 (optional)	RS-232\RS-485 (optional)	RS-232\RS-485 (optional)
Protocol	Modbus (optional)	Modbus (read only)(optional)	Modbus (read only) (optional)
Main unit	ABS+UV	ABS+UV	ABS+UV
Material	Sensor		
	Acoustic window		
Mounting thread	1" BSP or "NPT	1" and 2" BSP or NPT	1" and 2" BSP or NPT
Main Unit Operating Temperature	-40°C to +60°C (-40°F to + 140°F)	-40°C to +60°C (-40°F to + 140°F)	-40°C to +60°C (-40°F to + 140°F)
Sensor operating Temperature	-40°C to +90°C (-40°F to + 194°F)	-40°C to +80°C (-40°F to + 176°F)	-40°C to +80°C (-40°F to + 176°F)
Main unit Protection	IP 65	IP 65	IP 65
Sensor Protection	IP 67	IP 67	IP 67
Display	LCD (6 digits)	LCD (6 digits)	LCD (6 digits)
Maximum range of control unit (display) from sensor	200 meter	200 meter	200 meter
Cable connection	4 X Conduit 1/2 NPT or Gland (M20 option)	4 X Conduit 1/2 NPT or Gland (M20 option)	4 X Conduit 1/2 NPT or Gland (M20 option)
Mounting	Wall mount	Wall mount	Wall mount
Relays	5 SPDT	2 SPDT	5 SPDT
Main unit Weight	1.1 Kg	1.1 Kg	1.1 Kg
Sensor Weight	0.5 Kg	0.4 Kg	0.4 Kg
Enclosure dimensions	Approx 28 x 20 x 9 cm3	Approx 28 x 20 x 9 cm3	Approx 28 x 20 x 9 cm3
Certifications	CE and ATEX, FM, NEPSI (optional)	CE and ATEX, FM, NEPSI (optional)	CE and ATEX, FM, NEPSI (optional)

* Tested in a controlled laboratory environment at room temperature.

SmartLite™ and Smartscan™ are registered trademarks of Solid Applied Technologies Ltd.

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Specifications are subject to change without notice

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