

North American Sensors Corp.

IntelliScan

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

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

The IntelliScan Family

- 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 the sensor

IntelliScan Lite

- Our entry level cost effective product
- Designed for liquid applications
- Excellent chemical resistance (PVDF or Polypropylene)
- 2 SPDT relays
- Modbus

IntelliScan 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



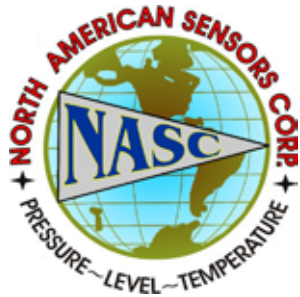
IntelliScan 25

- Extended range applications - up to 40m /131 ft
- Best fit high process tanks, large storage vessels for dust free solids
- Modbus
- Five independent SPDT relays

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IntelliScan Data Sheet

Model	IntelliScan 50	IntelliScan Lite	Intelliscan 25
Type	Ultrasonic 4-wire	Ultrasonic 4-wire	Ultrasonic 4-wire
Max range for liquids	12m /39.4ft	10m /32ft	40m /131ft
Max range for solids	8.5m /28ft	NA	30m /98ft
Min Range	0.40m /1.3ft	0.60m /2ft	0.60m /2ft
Measuring accuracy	0.2% of max range* (2.4cm max)	0.25% of max range* (2.5cm max)	0.25% of max range* (6.25cm max)
Transmission frequency	50KHz	25KHz	25KHz
Power Supply	18-30VDCor 100-240VAC (optional)	18-30VDCor 100-240VAC (optional)	18-30VDCor 100-240VAC (optional)
Load	750 ohm@VDC	750 ohm@VDC	750 ohm@VDC
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	Glass filled polyester + polypropylene or PVDF	Polypropylene or PVDF	Polypropylene or PVDF
Acoustic window	Glass reinforced epoxy	ECTFE	ECTFE
Mounting thread	1" BSP or NPT	1" and 2" BSP or NPT	1" and 2" BSP or NPT
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	200m	200m	200m
Cable connection	4 X Conduit ½ NPT or Gland (M20 option)	4 X Conduit ½ NPT or Gland (M20 option)	4 X Conduit ½ NPT or Gland (M20 option)
Mounting	Wall mount	Wall mount	Wall mount
Relays	5 SPDT	2 SPDT	2 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)

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