

ULTRASONIC LEVEL SENSOR

5600-0157



5/6/2008

SELF CONTAINED ULTRASONIC SENSOR SUITABLE FOR NON-CONTACT MEASUREMENTS OF LEVEL, VOLUME, PROXIMITY, DISTANCE AND SNOW DEPTH

FEATURES

- Range from 1 to 30 ft. (0.3 to 9.1 m)
- Self-contained sensor
- Works on solids and liquids
- Easy to install
- AutoSense Software for hassle-free setup
- Internal temperature compensation
- Virtually maintenance free
- Programmed via computer interface using the RST-3001 USB module, RST-2001A module, or RS-232 and Windows® compatible software
- Optional Outputs: 0-2.5 V/0-5 V (selectable via software)

APPLICATIONS

- Non-contact level measurement
- Tank level measurement
- Proximity/distance measuring
- Snow depth Sensor

Ultrasonic technology, a non-contact method of detecting level, presence/absence, volume, proximity & distance measurements is ideal for a variety of applications

Until recently, many factors that influence the speed of sound created inaccurate readings. Now with low cost microprocessor technology, these variables (such as temperature change) can be factored into the equation and eliminated.

The sensors use internal temperature compensation to offset the effects of changes & can compensate for other variables, such as wave action, agitators, and humidity. Sensor adjustments are made via a computer USB interface using an RST module (sold separately) and Windows™ compatible software.

ORDERING

5600-0157 Level Sensor, Ultrasonic (includes a standard 6 foot cable)



SPECIFICATIONS

Specifications subject to change without notice

Range	1 ft. to 30 ft. (0.3 to 9.1 m)
Available Outputs	0-2.5 V/0-5 V (selectable via software)
Operating Voltage	12-28 VDC
Programming Voltage	15-28 VDC (RST), 12-28 VDC (RS-232)
Total Current Draw	75 mA @ 24 VDC
Maximum Power Rating	2.5 W
Housing	Poly carbonate/PET blend
Mounting	2 in. NPT or 3/4 in. NPT
Transducer Type	PVDF-faced ceramic
Ratings	NEMA 4X
Approvals: Clas	1 Div. 2 groups A, B, C, D (pending)
Response Time	Programmable (20 ms minimum)
Sample Rate	Programmable (1-22 Hz)
Resolution	0.1 in. (2.5 mm)
Accuracy	± 0.25% of detected range (with no temperature gradient)
Adjustments	USB interface using RST- 3001, or RS-232 interface using RST-2001A
Operating Temperature	-40 to +140°F (-40 to 60°C)
Beam Pattern	9° off axis (at full signal strength and sensitivity settings)
Electrical Connection	Pigtail or micro connector
Frequency	69 kHz