



"Mini Sonic" Ultrasonic Transmitters - Standard Mtg.

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FEATURES

Standard 5 feet of interconnection cable Simple push-button calibration Output 4- 20 mA / 20- 4 mA Built-in temperature compensation Optional High Level Alarm relay dual pole output 5A/230 Vac Optional RS485 communications with calibration, diagnostics and data

logging software PLC compatible Three Wire Operation

APPLICATIONS

Food and Beverages Water Pharmaceutical

Mounting Options

Mounting Adaptors Available: 1"- 3/4" NPT or 1"- 1/2" NPT

ENVIRONMENTAL

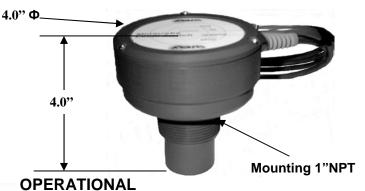
Temperature: - 40 to 140°F(- 40 to 60°C) PVC Body

Pressure: 1 –10 bar Installation Category: Class II

<u>CATALOGUE</u> # - On the Web return to Home Page & Refer to Catalogue Number Structure for Ordering information. In Product Documentation refer to page 3.

ELECTRICAL SPECIFICATIONS

Power DC ABM300	12 to 30 VDC , 0.07 A max @ 24 Vdc R load = (Vs — 6) / 24 mA	
Output 4-20 mA Output 6.1 uA resolution Optional - communications port RS485		
_	- Relay DPST 5A / 230 Vac	



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Accuracy: +/-0.10% of max. range

(in lab using 4-20 Ma current output)

+/-0.25% of max. range (typically in field)

Beam Angle: 10 - 12 degree at -3dB

Loss of Echo: Programmable from 1 min. to 4 min. (Default = 1 min.)22mA or 2 mA output

Temp. Comp.: In transducer

Calibration: Push-button or programmable

via optional communications port

Diagnostics: (Echo Profile) via communications port High Level Alarm 5A. Relay has hysteresis and delay of 5% of the tank height, this can be adjusted using communications software. Relay's state changes at 20mA calibration point or at 4 mA calibration point. To switch the above "push-button" or "communication software" can be used. Using push-button press and hold until the light goes off. Continuous green light indicates alarm at 20mA., blinking green indicates alarm is 4 mA. Relay "ON" set point is adjustable using communications software.

MECHANICAL

Std. Interconnection Cable:

5'- Belden #9503: 3 Pair-24AWG

1) Supply: 12 - 30 Vdc 1 pair shielded (Red/Blk.)

2) Output: 4 - 20 mA 1 Pair shielded (Blk./Green)

3) Comm.:RS485 (optional) 1 Pair Shielded (Blk./Wht.)

Optional Relay Cable:

5'- Belden #9493 :3-18 AWG unshielded

1) Relay (optional) DPST 5A /230Vac

Enclosure: PVC-94V0

Ingress Protection: NEMA 4X (IP65)

TECHNICAL SPECIFICATIONS

Range Code	Operating Range in Liquids	Resolution	Mounting NPT
148	0.33 - 6 ft. 0.10 - 1.8 m	0.03" 0.7 mm	1"

"Mini Sonic" Ultrasonic Transmitters Interconnection Diagram

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