

# SmartSonic "Mini-Probe" Ultrasonic Transmitters



## Features

- Standard 5 feet of interconnection cable
- Easy two point push-button calibration
- Output 4 to 20 mA signal
- Built-in temperature compensation
- RS-485 communications with calibration and diagnostic utility software
- Optional High Level Alarm relay dual pole output 5A/230 VAC
- PLC compatible
- Three Wire Operation

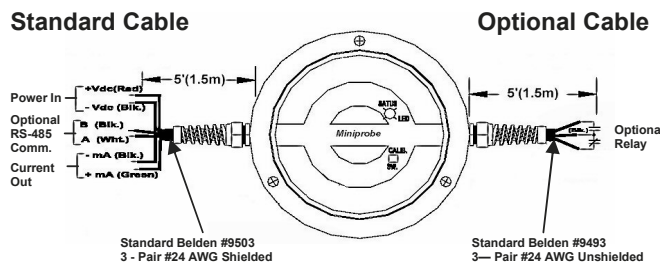
## Applications

- Food & Beverage
- Water
- Pharmaceutical

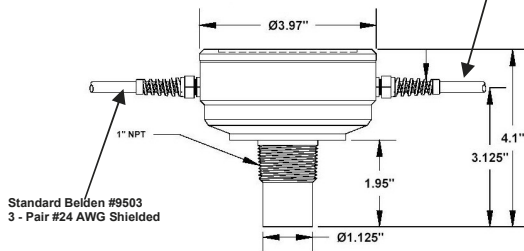


The SmartSonic Mini-Probe is a general purpose ultrasonic transmitter with a 6 foot range.

## Top View of Transmitter with Interconnection Diagram



## Mounting Dimensions



## Technical Specifications

MODEL	RANGE	RESOLUTION	MOUNTING FERRULE
SS300-148UMC4	0.33—6 ft 0.10—1.8 m	0.03"	1.0"

## Mechanical

### Std. Interconnection Cable

- 5' - Belden #9403 : 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. RS-485 1 pair shielded (Blk./Whi.)

### Optional Relay Cable

- 5' Belden #9493 : 3-18 AWG Unshielded
- 1) Relay (optional) DPST 5A/230 VAC

### Enclosure

PVC-94V0  
Ingress Protection NEMA 4X (IP65)

## Environmental

Temperature: -40 to 266° F (-40 to 130° C)  
Pressure: 1-10 bar  
Approvals: Installation Category Class II

## Operational

Accuracy: +/- 0.25% of max. range  
Beam Angle: 10°-12° conical at -3dB  
Loss of echo: Hold 30 seconds, 22 mA  
Temperature Compensation: Continuous in transducer  
Calibration: Push-button or programmable via optional communication port  
Diagnostics: Via communication port  
High Level Alarm: 5A relay has hysteresis and delay of 5% of tank height. Relay's state changes at full tank calibration point.

## Electrical Specifications

Power: 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  
RS-485 communication  
Optional: Relay DPST 5A / 230 VAC