



Options

- H: High Temp -40° to 266° F, High Pressure 70 psi (5 bar)
- R: Relay output (SS-300 mini only)

Sensor Material

- P: Standard - 3" (1" mini) -40° to 40° F, (-40° to 60° C), 29 psi (2 bar), (1, 2, 3, 4)
- T: High Temp - 3" (1" mini) -40° to 266° F, (-40° to 130° C), 29 psi (2 bar), (1, 2, 3, 4)
- 2: Sanitary - 2" -40° to 266° F, (-40° to 130° C), 29 psi (2 bar), (2, 4, 5)
- 1: Sanitary - 1.5" -40° to 266° F, (-40° to 130° C), 29 psi (2 bar), (2, 4, 5)

Body Material

P: PVC

Output

- H: Analog 4-20 mA (1)
- M: Modbus RS-485 & Analog 4-20 mA (2, 3, 4)

Frequency	Range	Resolution	Beam Angle	
45 - 45 kHz:	1.0-60 ft (0.30-18.2M)	0.27"(68mm)	9°	(1, 2, 3, 4)
52 - 52 kHz:	0.9-50 ft (0.27-15.2M)	0.23"(68mm)	12°	(1, 2, 3, 4)
70 - 70 kHz:	0.8-30 ft (0.24-9.1M)	0.13"(68mm)	12°	(1, 2, 3, 4)
80 - 80 kHz:	0.7-20 ft (0.21-6.1M)	0.088"(68mm)	12°	(1, 2, 3, 4)
81 - 81 kHz:	0.6-16 ft (0.18-4.9M)	0.07"(68mm)	12°	(1, 2, 3, 4)
148- 148 kHz:	0.4-9 ft (0.12-2.7M)	0.04"(68mm)	12°	(1, 2, 3, 4)
82 - 80 kHz Mini:	0.7-20 ft (0.21-6.1M)	0.088"(68mm)	12°	(1, 2, 3, 4)
149 - 148 kHz Mini:	1.0-60 ft (0.30-18.2M)	0.04"(68mm)	12°	(1, 2, 3, 4)

Power Pac

- SS200.: SS200 SmartSonic 12-28 VDC Loop Powered
- SS300.: SS300 SmartSonic 12-30 VDC
- SS400.: SS400 SmartSonic 115 VAC
- SS430.: SS430 SmartSonic 230 VAC

- 1: SS200
- 2: SS300
- 3: SS400
- 4: SS430
- 5: 70, 80, 81, 148 kHz only



SmartSonic

The SmartSonic ultrasonic level sensor is designed for continuous non-contact level measuring and monitoring of tanks, bins, and silos. Its transmitter features a high efficiency, narrow beam and uses a wide frequency bandwidth to enhance operation in difficult applications. The SmartSonic is designed to perform particularly well in harsh environments where vessel temperatures vary, using a temperature sensor to automatically compensate for temperature changes. Its transmitter range allows for level readings from 0.4 to 90 feet in liquid applications.

Description	CODE	Part No.
POWER PAC		
SmartSonic 12-28 VDC Loop Powered	SS200.	
SmartSonic 12-30 VDC	SS300.	
SmartSonic 115 VAC	SS400.	
SmartSonic 230 VAC	SS430.	
FREQUENCY		
Range: 45 kHz: 1.0-60 ft (0.30-18.2M) Resolution: 0.27" (6.8 mm) Beam Angle: 9° Mounting: 3" NPT	45	
Range: 52 kHz: 0.9-50 ft (0.27-15.2M) Resolution: 0.23" (6.7 mm) Beam Angle: 12° Mounting: 2" or 3" NPT	52	
Range: 70 kHz: 0.8-30 ft (0.24-9.1M) Resolution: 0.13" (3.4 mm) Beam Angle: 12° Mounting: 2" or 3" NPT	70	
Range: 80 kHz: 0.7-20 ft (0.21-6.1M) Resolution: 0.088" (2.2 mm) Beam Angle: 12° 2" or 3" NPT	80	
Range: 81 kHz: 0.6-16 ft (0.18-4.9M) Resolution: 0.07" (1.8 mm) Beam Angle: 12° Mounting: 1.5" or 3" NPT	81	
Range: 148 kHz: 0.4-9 ft (0.12-2.7M) Resolution: 0.04" (0.98 mm) Beam Angle: 12° Mounting: 1" or 3" NPT	148	
Range: Mini 80 kHz: 0.7-20 ft (0.21-6.1M) Resolution: 0.088" (2.2 mm) Beam Angle: 12° Mounting: 1.5" Ferrule	82	

Description	CODE	Part No.
Range: Mini 148 kHz: 1.0-60 ft (0.30-18.2M) Resolution: 0.04" (0.98 mm) Beam Angle: 12° Mounting: 1" NPT	149	
OUTPUT		
Analog: 4-20 mA	H	
Analog: 4-20 mA	M	
BODY MATERIAL		
Standard PVC	P	
SENSOR MATERIAL		
Type: 3" Standard PVC (1" Mini) Temperature: -40° to 40° F, (-40° to 60° C) PSI: 29 psi (2 bar)	P	
Type: 3" High Temp Teflon (1" Mini) Temperature: -40° to 266° F, (-40° to 130° C) PSI: 29 psi (2 bar)	T	
Type: Sanitary 2" connection (70, 80, 81, 148 kHz only) Temperature: -40° to 266° F, (-40° to 130° C) PSI: 29 psi (2 bar)	2	
Type: Sanitary 1.5" connection (70, 80, 81, 148 kHz only) Temperature: -40° to 266° F, (-40° to 130° C) PSI: 29 psi (2 bar)	1	
OPTIONS		
High temperature, high pressure -40° to 266° F, (-40° to 130°), 70 psi (5 bar)	H	
Relay output (SS-300 mini only)	R	
MOUNTING PLATES		
SSMP-1 - Self-aligning carbon steel 3" ball and socket flange provides vertical connection for tanks with a radius dome or angled roof top, provides easy aiming flexibility.		416-0367