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Series 600 Open Face Transducer

SensComp's Series 600 Open Face Electrostatic Transducer is specifically intended for operation in air at ultrasonic frequencies. This transducer extends the range of applications for electrostatic transducer technology, is Parylene coated, and the outer housing is made of 304 stainless steel for harsh environments.

Features

Open Face Construction
Parylene Coated
50 kHz Electrostatic Transducer
304 Stainless Steel Housing
Narrow Beam Angle of 15° at -6 dB
Low Ring Characteristics

Part No.

PID# 604144 – Series 600 Open Face Transducer (RoHS Compliant)

Benefits

Improved Performance In:

- Dusty Environments
- Harsh Chemical Environments

Splash and Moisture Resistant Resistant to Organic and Inorganic Solvents Excellent Receive Sensitivity Able to Range from 6" to 35'

Applications

Level Measurement in Tanks
Proximity Detection in Harsh Industrial and Agricultural
Environments

Specifications

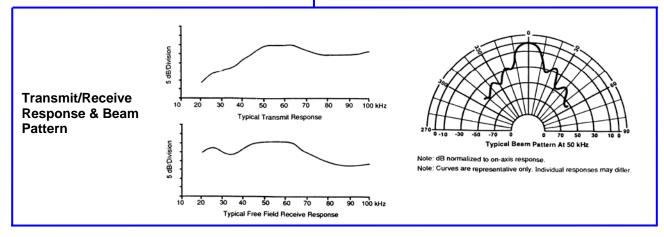


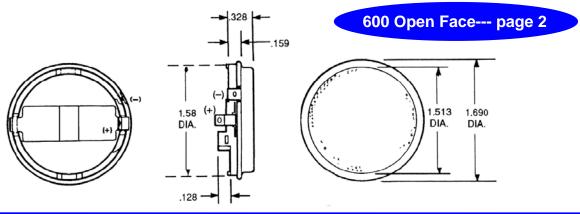
Description

The open face construction of SensComp's Series 600 Transducer minimizes the potential of dust and powdered material collecting on the front face of the transducer.

The added protection of the Parylene conformal coating makes this transducer splash resistant and able to operate more efficiently in harsh chemical environments containing organic and inorganic solvents. Additionally, the Parylene coating provides extended protection against corrosion and mechanical abrasion.

Lines which may occasionally appear in foil have no effect on product functionality or performance.





Specifications

Usable Frequency Range		Suggested DC Bias Voltage	200V
Transmitting	See Graph	Suggested AC Driving Voltage	200V peak
Receiving	See Graph	Combined Voltage	400V max
Beam Pattern	See Graph	Capacitance at 1 kHz (typical)	400–500 pf
Typical: 15° at -6dB		(at 150 VDC bias)	
Transmitting Sensitivity	110 dB min	Operating Temperature	40 to +85° C
at 50.0 kHz; 0dB re 20 µPa at 1 meter			(-40 to 185° F)
(300 VAC _{PP} ; 150 VDC bias)		Storage Temperature	40 to 120° C
Receiving Sensitivity	42 dB min		(-40 to 250° F)
at 50.0 kHz; 0dB = 1 volt/Pa		Relative Humidity (non condensing)	5% - 95%
(150 VDC bias)		Dimension	
Distance Range	0.15 to 10.7 M	Thickness	0.46 inch
	(0.5 to 35 feet)	Diameter	1.69 inch
Resolution (± 1% over entire range) ± 3mm to 3m		Standard Finish	
	(± 0.12 to 10 ft)	Foil	Gold
Weight	8.2 gm (0.29 oz)	Housing	304 Stainless
			Steel

Specifications subject to change without notice

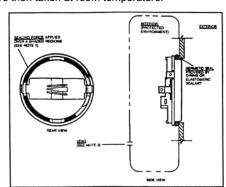
Environmental Characteristics & Exposures

Note: The following tests were performed in an environmentally controlled test facility with the transducer housed in a custom designed test enclosure. The test enclosure protects the transducer sides and back from exposure to any foreign matter. The rear of the transducer is vented to atmosphere pressure.

After each test, the transducers were cleaned and dried as necessary. Measurements were then taken at room temperature.

•	• Storage Temperature40 TO 120° C (-40 to 2	50 ° F)	
•	• Salt Spray Exposure (96 hours)5% salt spray solution at	95 °	
•	Shock and Vibration50 G peak in each direct	ion along 3	
	perpendicular axes, puls	e duration: 6.5 ms; 6 G's	
	RMS 20-2000 Hz for 6 m	ninute.	
•	Water Immersion (24 hours)(vent hole sealed)		
•	Freeze/Thaw Cycle (4 cycles)Spray with water, drain, expose to -20° F		
	(-30° C) for 20 minutes, a		
	temperature.		
•	Chemical ExposureGasoline, acetone, sulful	r dioxide. Samples	
	sprayed with/ exposed to	chemical, then placed	
	in120° F (49° C) / 90% re	elative humidity .	

environment for 24 hours.



No claims are made for performance without an enclosure providing protection equal to or better than the test enclosure described above. Similarly, no claim is made for performance in any other environments or under any other condition than those controlled conditions described herein.

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