# Vibration Transmitter ST6900 Series Compact Transmitter 4-20 mA



## **Loop-powered Transmitter**

ST6900 Series case mounted transmitters interface directly with PLC, DCS, and 4-20 mA input monitors. The compact size allows for installation in tight places. Model ST6911 is 4-20 mA proportional to acceleration while Model ST6917 is proportional to velocity.

These units feature Metrix proprietary Independent Polarity Terminal (IPT<sup>®</sup>)<sup>1</sup>, which allows for error-free wiring. Each ST6900 Series transmitter has the most stable detection circuit available due to built-in protection against temperature shock, and high accuracy at low frequencies by preventing the "ski slope" problem.

#### Notes:

1.  $\ensuremath{\mathsf{IPT}}^{\ensuremath{\texttt{\$}}}$  (Independent Polarity Terminal) is a registered trademark of Metrix Instrument Co.

## **Features**

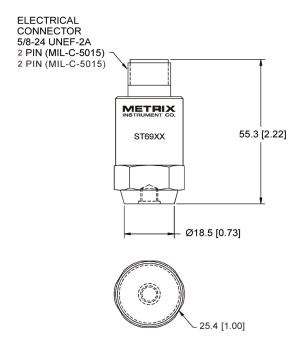
CE

- Loop-powered
- 4-20 mA proportional to acceleration (ST6911)
- 4-20 mA proportional to velocity (ST6917)
- Loop terminals with Independent Polarity (IPT<sup>®</sup>). Prevents incorrect wiring.
- Interfaces with PLC, DCS, 4-20 mA monitors, etc.
- M6 x 1 or 1/4 28" mounting studs
- MIL style connector standard
- Widest operating temperature in its class
- Most stable detection circuit available
- Temperature shock protected
- "Ski slope" problem protected
- Hermetically sealed

# **Applications**

- Blowers
- Centrifuges
- Compressors
- Engines
- Fans
- Generators
- Motors
- Pumps
- Steam Turbines
- Turbochargers





Weight: 91 gm (3.1 oz.)

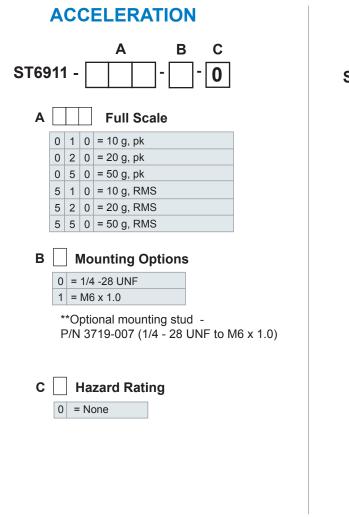
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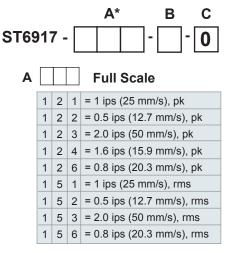
# **Specifications**

Vibration Range: 4 to 20 mA output proportional to acceleration (ST6911) and velocity (ST6917). Non standard ranges available. Accuracy: 2% (Repeatability) Frequency Response: Velocity: 3 - 1000 Hz Acceleration: 3 - 10000 Hz Axis Orientation: Any Supply Voltage (Vs): 11 to 30 VDC, Non-polarity sensitive,  $IPT^{\circledast}$ Isolation: 500 Vrms, circuit to case Electrical Connection: MIL style 2-pin connector Maximum Load Resistance (R<sub>L</sub>): R<sub>L</sub> = 50 x (Vsupply-11) ohms Service Temp. Rating: -40°F to 120°C (-40°F to 248°F) Enclosure Materials: 303 SS Enclosure Environmental Rating: NEMA 4X, IP 67 Approvals: CE marked

## **How To Select**



# VELOCITY



\*Note: For true RMS velocity calibration, add 30 to dash number. Ex: -121 becomes -151.

В		Mounting Options	
	0	= 1/4 -28 UNF	
	1	= M6 x 1.0	
	*	*Optional mounting stud	-

P/N 3719-007 (1/4 - 28 UNF to M6 x 1.0)

C Hazard Rating

# Accessories - Page 2.28, 2.29 & 2.33

