



SV6300 SEISMIC VELOCITY SENSOR

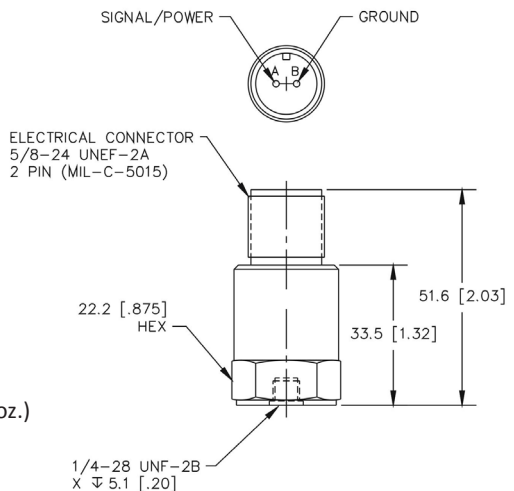
Installation Manual



OVERVIEW

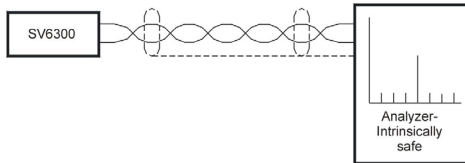
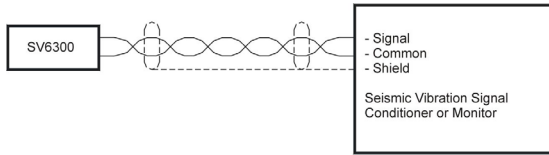
The SV6300 is capable of sensing a wide range of vibration frequencies, this velometer is ideal for use on a variety of machines. A built-in amplifier provides a high-level, low-impedance output for connection to a signal conditioner for a 4-20 mA output or to a vibration monitor. It consists of a temperature stabilized piezo-electric sensor and amplifier, packaged in a stainless steel case designed to operate continually in a wet, corrosive environment. The sensing circuit is electrically isolated to 500Vrms. Although shipped standard with both 1/4-28 to 1/4-28 and 1/4-28 to M6 x 1.0 mounting studs, other mounting configurations are available.

OUTLINE & DIMENSIONS



Units: mm [in]
Weight: 91 gm (3.1 oz.)

WIRING DIAGRAM



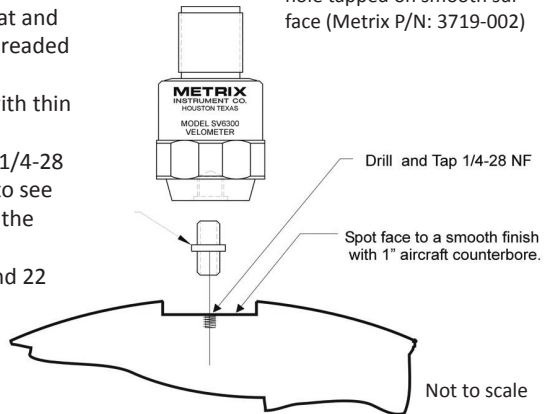
TYPICAL MOUNTING



MOUNTING ON MACHINE SURFACE

1. Verify that mounting surface and tapped hole is free of burrs and debris.
2. Verify that mating surfaces are flat and perpendicular with the 1/4-28 threaded hole.
3. Coat mating areas and threads with thin film of oil.
4. Hand tighten the velometer and 1/4-28 stud to the machine taking care to see that nothing is trapped between the mating surfaces.
5. Torque velometer between 18 and 22 inch-pounds.

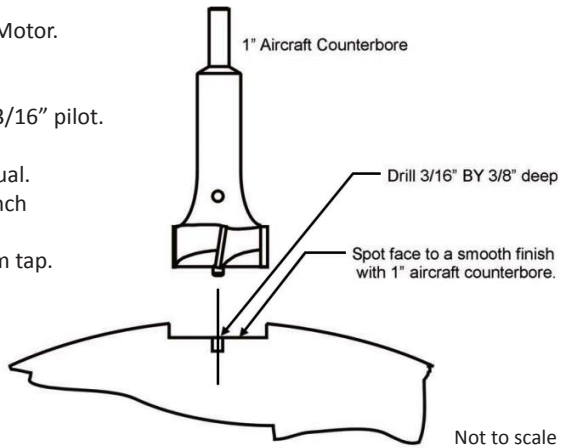
Mounting stud mounts in hole tapped on smooth surface (Metrix P/N: 3719-002)



STUD MOUNTING

Tools needed

1. Half inch variable speed Drill Motor.
2. 3/16" (#12) drill bit.
3. 7/32" (#3) drill bit.
4. 1" Aircraft Counterbore with 3/16" pilot.
5. 3/32" Allen Wrench.
6. Cutting fluid, Tap Magic or equal.
7. Torque wrench calibrated in inch pounds.
8. 1/4"-28 UNF taper and bottom tap.
9. 7/8" crow foot attachment.
10. Tap handle.
11. Small ball peen hammer.
12. Center punch.
13. Light Oil.



Installation Procedure

1. Center punch hole location.
2. Drill 3/16" diameter by 1/2" deep hole on punch mark.
3. Remove metal shavings.
4. Using the 3/16" hole as a guide, spot face to the depth required for a flat mounting surface.
5. Drill out the center hole using the 7/32" (#3) drill bit.
6. Tap hole with 1/4-28 UNF tapered tap.
7. Remove tap, deburr and metal shavings.
8. Continue tapping 1/4-28 UNF bottom tap.
9. Remove tap and deburr.
10. Apply a light oil to accelerometer stud and mating surface.
11. Install accelerometer, torque between 18 and 22 in/lbs.

ENVIRONMENTAL INFORMATION



This electronic equipment was manufactured according to high quality standards to ensure safe and reliable operation when used as intended. Due to its nature, this equipment may contain small quantities of substances known to be hazardous to the environment or to human health if released into the environment. For this reason, Waste Electrical and Electronic Equipment (commonly known as WEEE) should never be disposed of in the public waste stream. The “Crossed-Out Waste Bin” label affixed to this product is a reminder to dispose of this product in accordance with local WEEE regulations. If you have questions about the disposal process, please contact Metrix Customer Service.

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