



Model 140 Series Vibration Transmitters

Features:

! UL Listed for Intrinsic Safe Use ! 4-20 mA Output for Vibration Velocity ! Two-Wire, Loop Powered ! Interface with PLC, DCS or 4-20 mA monitor ! Rugged NEMA 4 weather-proof case ! 140-T has Terminal Strip

Applications

Fans, Motors, Pumps, Compressors
Controlling Vibrating Conveyors
General Purpose Machinery

Specifications:

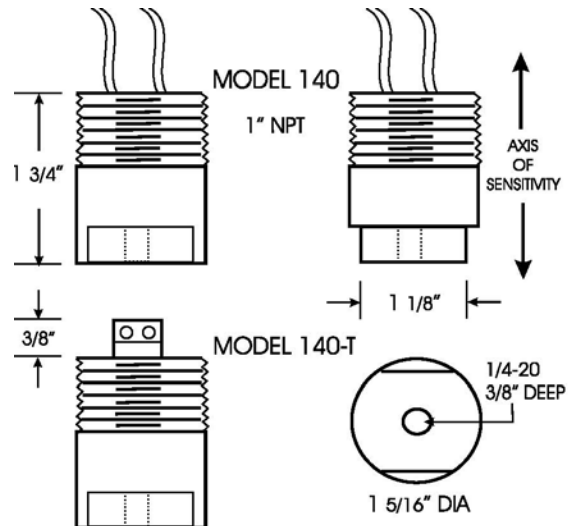
Model 140-1 0 - 1 in/sec (0 - 25.4 mm/sec) (peak)
Model 140-2 0 - 2 in/sec (0 - 50.8 mm/sec) (peak)
Model 140-5 0 - 5 in/sec (0 - 127 mm/sec) (peak) Model 140-X Special Order Example:
140-25 = 0 - 25 in/sec (0 - 635 mm/sec)
Frequency 7 - 1300 Hz to -3 dB 420 - 78,000 RPM

Output 4 - 20mA proportional to overall vibration (an output of 4mA indicates 0 in/sec or no vibration while an output of 20mA indicates the maximum full scale range is present)

Supply Voltage 14 to 50 Vdc Red lead/terminal = positive (+) Black lead/terminal = negative (-) With reverse voltage protection

Circuitry Solid-state, encapsulated in hardened epoxy
Adjustment Span and Zero Max. Loop

Resistance $R_L = 50 (V_s - 12.5)$ ohms
Isolation 500 V, circuit to case
Temperature -20 C to 85 C (-4 F to 185 F) Weight 13.6 oz. (387 grams) Case Material Plated Steel, NEMA 4 weatherproof Mounting 1/4-20 stud x 3/8 inch deep



MODEL 140 (-1, -2, -5, -X) HAS #20 AWG LEADS, 24" LONG
MODEL 140-T (-1, -2, -5, -X) HAS TERMINAL STRIP



INTRINSICALLY SAFE VIBRATION TRANSMITTER FOR USE IN HAZARDOUS LOCATION CLASS I, GROUPS A, B, C AND D; CLASS II, GROUPS E, AND G; CLASS III WHEN INSTALLED IN ACCORDANCE WITH BALMAC CONTROL DRAWING B-11812-1.