



# Model 191 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

## Applications

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

## Specifications:

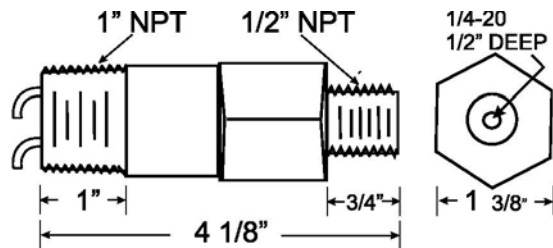
Model 191-1 0 - 1 in/sec (0 - 25.4 mm/sec) (peak)  
Model 191-2 0 - 2 in/sec (0 - 50.8 mm/sec) (peak)  
Model 191-5 0 - 5 in/sec (0 - 127 mm/sec) (peak) Model 191-X Special Order Example:  
191-25 = 0 - 25 in/sec (0 - 635 mm/sec)  
Frequency 7 - 1300 Hz to -3 dB 420 - 78,000 RPM

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)

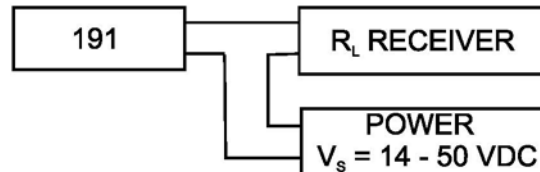
Supply Voltage 14 to 50 Vdc Red lead/terminal = positive (+) Black lead/terminal = negative (-) With reverse voltage protection

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 1/2 inch NPT pipe thread, or,  
1/4-20 stud x 1/2 inch deep



2 #20 AWG WIRES  
24" LONG



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