

# Model 191 Series Vibration Transmitters

## Features:

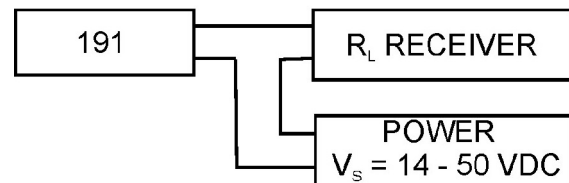
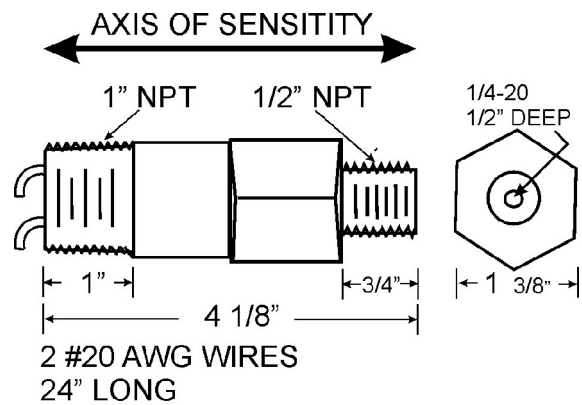
- UL Listed for Intrinsic Safe Use
- 4-20 mA Output for Vibration Velocity
- Two-Wire, Loop Powered
- Interface with PLC, DCS or 4-20 mA monitor
- Rugged NEMA 4 weather-proof case

## 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	$R_L = 50 (V_s - 14)$ 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



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.