

# Vibration Transmitter

## 162VTS Slim Style Loop-powered



SEISMIC PRODUCTS

The 162VTS is the ideal solution for sensing vibration on most plant equipment. It generates a two-wire loop signal proportional to velocity for transfer to a programmable logic controller (PLC), distributed control system (DCS) or other 4-20 mA input devices. Simply mount the transmitter on the machine case, connect the 2-wire loop and read and/or record the vibration.

### Features/Benefits

- Loop terminals w/Independent Polarity (IPT®)
- Interfaces with PLC, DCS, 4-20 mA monitors, etc.
- Different mounting studs available
- Flying leads or terminal block connector
- Most stable detection circuit available
- “Ski slope” problem protected
- Built-in base & housing strain protection
- Improved shielding and stability

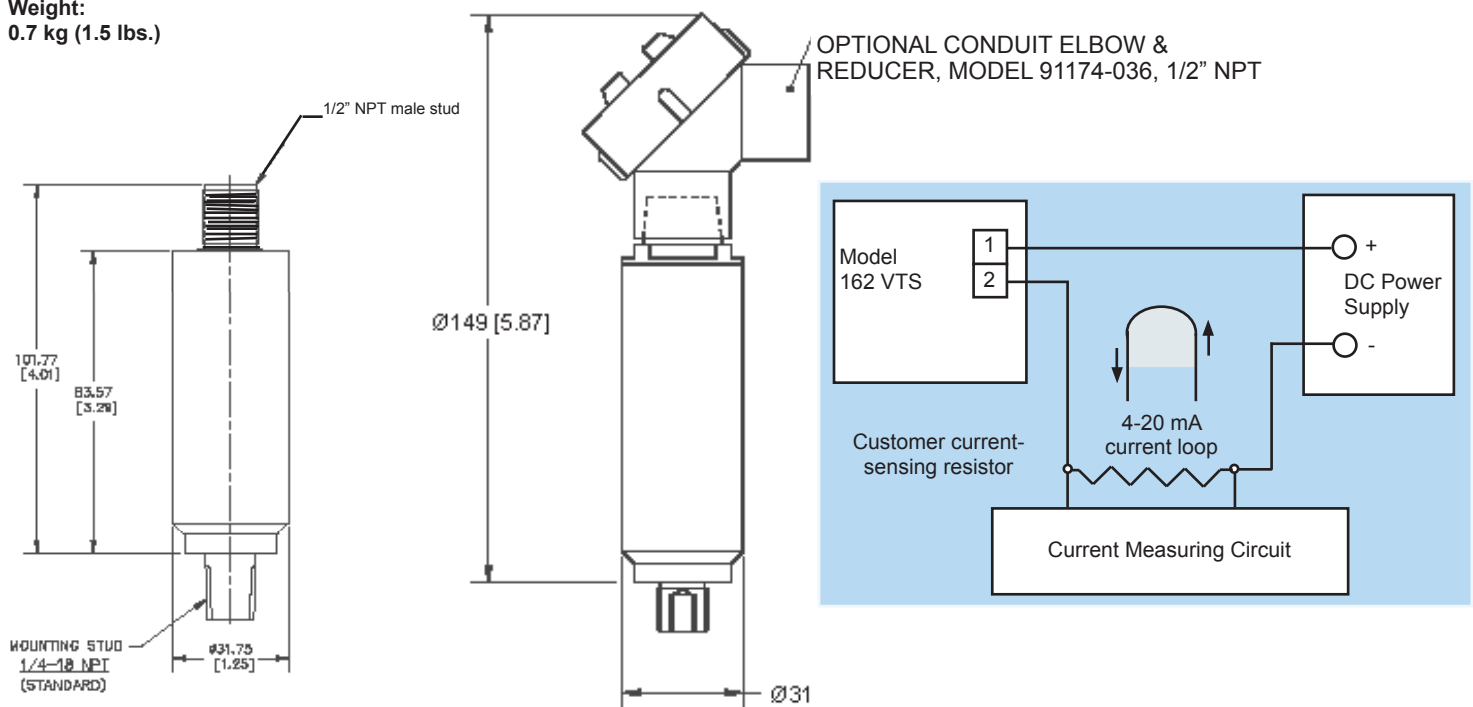
### Applications

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

IPT® (Independent Polarity Terminal) is a registered trademark of Metrix Instrument Co.

### Weights & Dimensions

Weight:  
0.7 kg (1.5 lbs.)



### Specifications

**Vibration Range:** 4 to 20 mA output proportional to velocity. Refer to "How to Select A" for ranges. Nonstandard ranges available.

**Frequency Response:** Standard: 2 - 1500 Hz

**Axis Orientation:** Any

**Supply Voltage (Vs):** 11 to 30 VDC,

Non-polarity sensitive, IPT®

**Isolation:** 500Vrms, circuit to case

**Electrical Connection:** 2 pin terminal block (accepts up to 16 AWG wire). A cable gland is also available.

**Maximum Load Resistance (R<sub>L</sub>):** R<sub>L</sub> = 50 x (V<sub>supply</sub>-11) ohms

**Service Temp. Rating:** -40° to 100°C (-40° to 212°F)

**Enclosure Materials:** 303 SS

**Enclosure Environmental Rating:** NEMA 4X, IP 65, IP 67 for 2 pin terminal block or flying lead option available.

**Approvals:** Refer to "How to Select C".

### How To Select



#### A Full Scale\*

|   |   |   |                            |
|---|---|---|----------------------------|
| 1 | 2 | 1 | = 1.0 ips (25.4 mm/s), pk  |
| 1 | 2 | 3 | = 2.0 ips (50.8 mm/s), pk  |
| 1 | 2 | 6 | = 0.8 ips (20.3 mm/s), pk  |
| 2 | 0 | 0 | = 1.60 ips (40.6 mm/s), pk |

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

#### B Mounting

|   |                       |
|---|-----------------------|
| 0 | = Integral 1/4" NPT   |
| 2 | = 3/8 - 24 UNF X 3/8" |
| 4 | = M8X 1 - 10          |

#### C Hazardous Area Rating

|   |  |
|---|--|
| 3 | = CSA/NRTL/C Class 1, (A, B, C & D), Div 2   |
| 4 | = Class 1, Div 1, Grps B-D and Class 2, Div 1, Grps C-G. Available on the 1/2" NPT Top only. (D = 5) |
| 5 | = Non-Hazardous  |

#### D Connection

|   |   |
|---|---|
| 5 | = 4-20 mA; 1/2" NPT top, 24" leads      |
| 6 | = 4-20 mA; 2 pin terminal block (C = 3) |

#### Optional Stud Adapters

| STUD      | BUSHING                      |
|-----------|------------------------------|
| 8253-002  | 1/4" NPT to 1/2" NPT         |
| 8841-084  | 3/8 - 24 UNF to 1/2 - 20 UNF |
| 8841-099  | M8 to M10 x 1.25             |
| 93818-015 | Cable Gland                  |



Internal View - 2 pin Terminal Block



Full Body View

