



## Low Frequency Velocity/Displacement Sensor TM079VD

The TM079VD is specially designed to measure low frequency vibration. The TM079VD output is in velocity or displacement.

### Features

- ✓ Measures frequency down to 30 rpm's in velocity or displacement
- ✓ IEPE power used with most accelerometer receivers
- ✓ Stainless steel hermetically sealed case
- ✓ Ideal for low speed machines (hydro turbines, cooling towers, fin-fans and wind-turbines)
- ✓ Large signal output, high signal/noise ratio

### Specifications

#### Electrical

Sensitivity:

Velocity:

40 mV/mm/s (1000mV/in/sec), pk, @ 25°C, ±10%

Displacement:

3.94mV/um (100mV/mil), pk-pk, @ 25°C, ±10%



Maximum Amplitude:

Velocity: 100 mm/s pk

Displacement: 2000µm pk-pk

Frequency Response:

0.5 - 20 Hz (±3dB)

Isolation:

Fully isolated, case to circuit

Power Requirement:

3 - 10mA constant current

18 - 30VDC

Output Impedance:

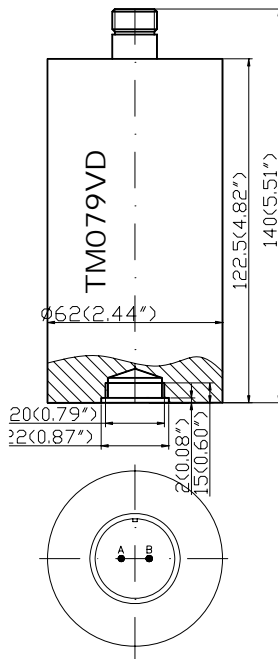
50Ω

Output Bias Voltage:

10 - 14VDC

Maximum Transmission Distance:

300 meters (1,000 feet)



#### Environmental and Physical

Temperature Range:

-20°C to +70°C

Environmental Protection:

IP67

Weight:

1,400 grams

Case Material:

304 stainless steel

Mounting:

3/4 NPT or M20

Mounting Torque:

29N x M

#### Connection

A: Power (red)

B: COM (white)



## Order Information

### TM079VD-V-AX-BX

Vertical mounting low frequency sensor

### TM079VD-H-AX-BX

Horizontal mounting low frequency sensor

AX: Sensitivity

A0: Velocity: 40 mV/mm/s (1000mV/in/sec), pk

A1: Displacement: 4.0mV/ $\mu$ m (100mV/mil), pk-pk

BX: Mounting Stud

B0: 3/4" NPT

B1: M20 $\times$ 1.5

## Accessories

**TM0716:** Mounting screw M20 $\times$ 1.5

**TM0717:** Mounting screw 3/4" NPT

(Standard cable length is 5 meters. XX = 05)



**TM0702-XX:** Aluminum MIL connector with XX meters cable, 6.35mm diameter.  
< 120°C (250°F)



**TM0703-XX:** Seal tight boot connector with XX meters cable, 6.35mm diameter.  
< 120°C (250°F)



**TM0704-XX:** Stainless steel MIL connector with armored XX meters cable,  
4.83mm diameter. < 150°C (300°F), Maximum Length is 10 meters.



**TM0705-XX:** Cornered MIL connector with XX meters cable, 6.35mm diameter.  
< 120°C (250°F), Maximum Length is 10 meters.