



## Accelerometer TM0782A

### General Purpose, Industrial Piezoelectric Accelerometers

The TM0782A-K accelerometer kit consists of one accelerometer and one 5 meter cable. This accelerometer kit directly interfaces with ProvibTech's signal conditioners: DTM, TR transmitters, DM Dual Monitors and PT580 vibration switches to measure case vibration in acceleration or velocity.

### Specifications

#### Electrical

Sensitivity:

100mV/g, @ 25°C, ±10%

Frequency Response:

0.5 - 10,000Hz (±3dB)

Acceleration Range:

50g

Isolation:

Fully isolated

Electrical Noise:

0.0007g

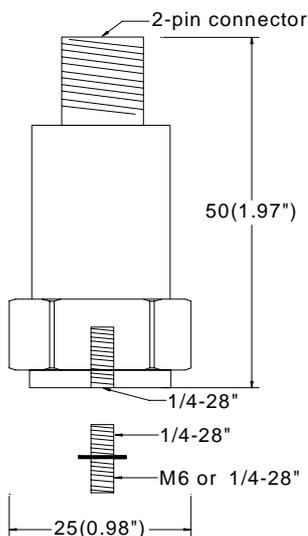
Power Requirement:

2 - 10mA constant current

18 - 30VDC

Bias Voltage:

10 - 14VDC



Resonance Frequency:

30 kHz

Maximum Transmission Distance:

300 meters (1,000 feet)

#### Environmental and Physical

Temperature Range:

-50°C to +120°C

Environmental Protection:

IP67

Weight:

90 grams

Case Material:

Stainless Steel

Mounting:

1/4-28UNF tapped hole

Installation Torque:

29N x M

Hazardous Area Approval:

ATEX: II 1 G, Ex ia IIC T4

CSA: Class I, Div. 1, Groups A, B, C and D

PCEC: Ex ia IIC T4

GOST R: 0ExialICT4X

#### Connection

A: Power (red)

B: COM (white)

Shield



## Order Information

### TM0782A-M

Accelerometer with mounting screw 1/4-28" to M6x1

### TM0782A-E

Accelerometer with mounting screw 1/4-28" to 1/4-28"

### TM0782A-K-M

Accelerometer kit includes:

- ✓ TM0782A accelerometer
- ✓ Mounting screw (1/4-28" to M6x1)
- ✓ TM0702-05

### TM0782A-K-E

Accelerometer kit includes:

- ✓ TM0782A accelerometer
- ✓ Mounting screw (1/4-28" to 1/4-28")
- ✓ TM0702-05

### Accessories:

(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.

**TM0710:** Mounting screw 1/4-28" - M6x1

**TM0711:** Mounting screw 1/4-28" - 1/4-28"

**TM0712:** Mounting screw 1/4-28" - M8

**TM0713:** Mounting screw 1/4-28" - M10

### TM0782A-M-S

Accelerometer with mounting screw 1/4-28" to M6x1  
Hazardous area approval

### TM0782A-E-S

Accelerometer with mounting screw 1/4-28" to 1/4-28"  
Hazardous area approval