



Milli-Temp Sensor

Adjustable Depth Bearing & Surface Temperature Sensor: 4-20 mA Output

**Approved for explosive atmospheres:
ATEX and IECEx Zones 20, 21 & 22 for dust**

APPLICATION

For use on any application where bearing or surface temperature monitoring is desired or required.

METHOD OF OPERATION

The Milli-Temp is a loop powered analogue sensor with a 4-20 mA linear output that is scaled across a temperature range for continuous temperature monitoring.

The sensor has been designed to allow the depth of the probe to be adjustable depending on your application.

The sensor screws directly into a bearing housing through the existing grease zerk thread. Each sensor is fitted with a zerk to allow lubrication of the bearing without the need for removal of the sensor.

For surface mount applications, a lug style adaptor bolts directly onto a bearing housing, motor, gearbox, or machine casing. The mounting hole is 9.5mm from the factory, but can be drilled up to 12.5mm if needed.

The sensor is supplied with a 3m cable. The connections are not polarity sensitive therefore special connection requirements are eliminated, and the cable can be extended in the field.

FEATURES

- ▶ 4-20 mA Output
- ▶ Screw in Positive Mount Installation (Bearing Temp.)
- ▶ Grease Zerk for Bearing Lubrication (Bearing Temp.)
- ▶ Lug Style Adaptor (Surface Temp.)
- ▶ 304 Stainless Steel Body

PART NUMBERS/ACCESSORIES

- ▶ ADBxxV3AI/D2 Milli-Temp: 50mm
- ▶ ADBxxV3AI/D3 Milli-Temp: 75mm
- ▶ ADBxxV3AI/D4 Milli-Temp: 100mm
- ▶ ADBxxV3AI/D6 Milli-Temp: 150mm
- ▶ ADBxxV3AI/D8 Milli-Temp: 200mm
- ▶ KIT-LUG-MIL Lug Style Adaptor (ADB2MV3AI only)
- ▶ ADBT4 ADB Sensor Tester

*Longer probe lengths available on request



ADB Sensor Tester

During planned maintenance or periodic testing, the ADB sensor tester can be used as a diagnostic tool to verify the alarm and shutdown sequences of the control unit are functioning as expected.



Probe Wrench
(Included with Sensor)



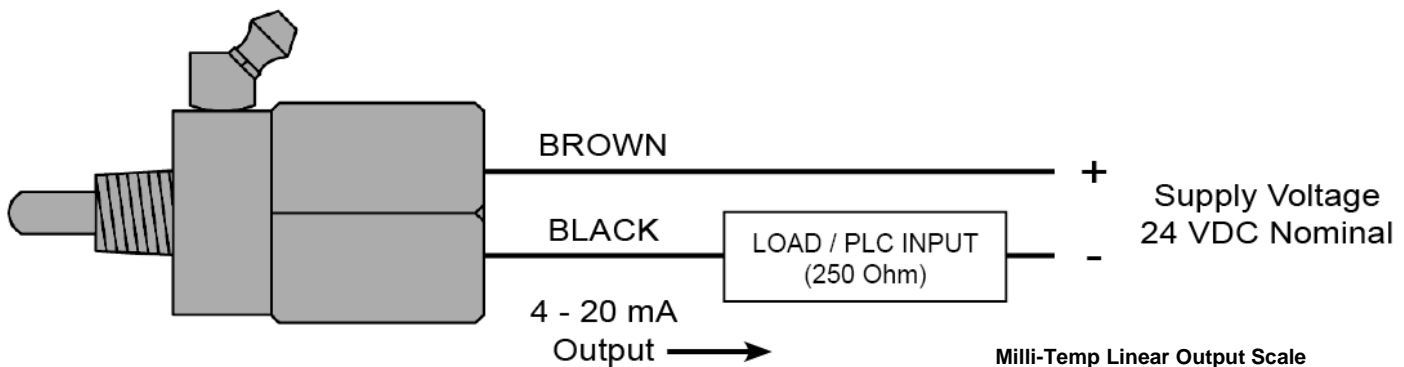
Lug Style Adaptor for Surface Mounting
(Sold Separately)



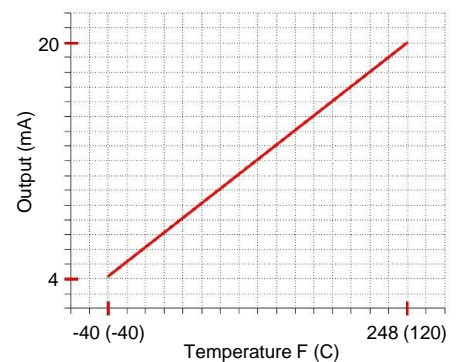
TECHNICAL SPECIFICATIONS

Model	ADBxxMV3AI	
Power supply:	24 VDC Nominal (15 to 28 VDC)	
Reverse Polarity Protection:	Yes	
Current -40°C:	4mA	
Current 120°C:	20mA	
Temperature Accuracy:	Typical ± 0.6°C, Over Entire Range ± 2.7°C	
Default Temperature Resolution:	0.05°C	
Operating Temperature (Probe):	Min. -40°C Max 120°C	
Output Resolution (Typical):	5 – 10 µA	
Current Out of Range:	20.5 mA or < 4 mA	
Body / Probe Material:	304 Stainless Steel	
Fixing Thread:	ADB81 = 1/4" BSPT, ADB91 = 1/8" BSPT, ADB2 1/8" NPT	
Cable:	3m – 2 Conductor	
Certificates and approvals:	Ex II 1D ta IIIC T200125°C Da IP66	Tamb -15°C to +50°C
	Ex ta IIIC T200125°C Da IP66	Tamb -15°C to +50°C

Wiring Diagram



Milli-Temp Linear Output Scale

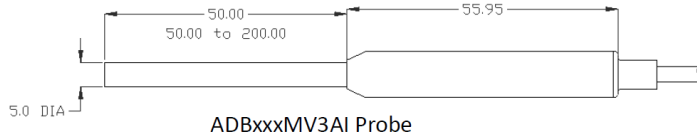


Please refer to instruction manual for correct installation. Information subject to change or correction.

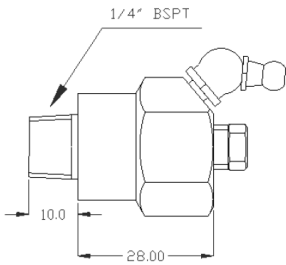
Detailed specification, wiring diagrams and installation/operating instructions available upon request.



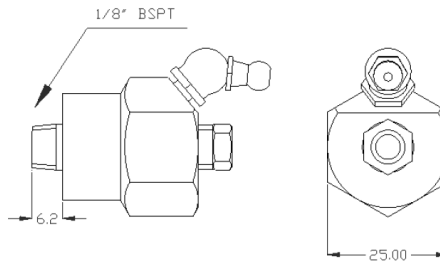
DIMENSIONS / INSTALLATION



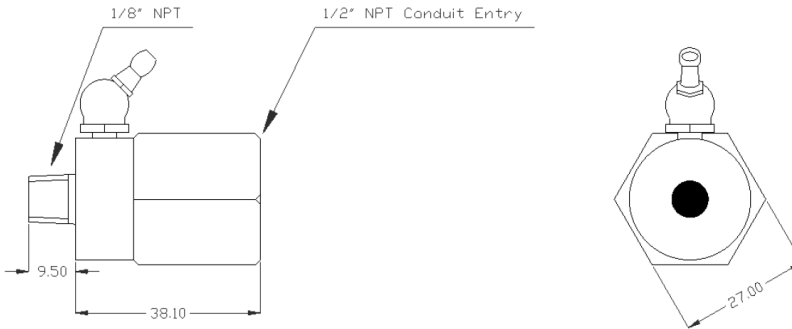
ADB81MV3AI Body



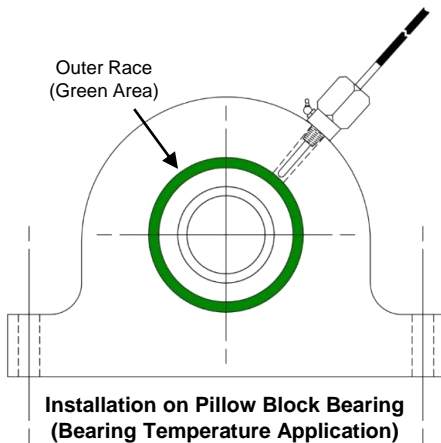
ADB91MV3AI Body



ADB2MV3AI Body



ALL DIMENSIONS mm UNLESS STATED



Lug Mount on Bearing Housing



Bearing Sensor on Belt Conveyor

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