

GENERAL DESCRIPTION

Maxi-Tronic, Inc. HB Temperature Sensors are rugged temperature sensors for monitoring bearing temperatures. They are designed for easy installation into existing grease fittings and have a flow-through design for applying grease.

FEATURES

- ✓ Available with Thermocouple, RTD, or PTC temperature sensors.
- ✓ 2-piece design with an outer ‘housing’ and a variety of inner sensor ‘inserts’:
 - The outer housing screws into the existing grease fitting (1/8” or 1/4”) and has its own grease fitting with flow-through design for applying grease to the bearing.
 - The insert screws into the housing until it just touches the bearing race. A temperature sensor embedded in the tip provides quick response to temperature changes.
- ✓ Works with Maxi-Tronic HBRB8/16 Controllers and MTDT24 Temperature Scanners.
- ✓ Compatible with MaxiTrack hazard monitoring software for anytime-anywhere monitoring.
- ✓ Easy hookup to PLCs.



SPECIFICATIONS

- Approved for Class II, Div. 2, Groups G
- Stainless steel housing and insert.
- Integral 1/2” conduit fitting.
- 8 insert lengths accommodate any size bearing.

Type “T” thermocouple sensors:

- 22 AWG leads (copper and constantan).
- Requires Type “T” extension wire (leadwire) when wiring the sensors. Maintain polarity.
- Compatible with Maxi-Tronic MTDT24 Temperature Scanners, PLCs with a thermocouple input card, or other thermocouple input devices.

PTC thermistors sensors:

- Switching-type PTC thermistor with a “J” response curve.
- Switching (transition) temperature is 140F.
- Compatible with Maxi-Tronic HBRB8/16 Controllers, PLCs with a PTC input card, or other thermistor input devices.

RTD sensors:

- Ultra stable industry standard 100 Ohm “PT100” type sensor (Class B).
- Do not exceed 1mA maximum measurement current: $100 \text{ Ohm} * 1 \text{ mA} = .1 \text{ VDC}$
- Compatible with PLCs and other RTD input devices.

