



## ADB Lug Sensor Surface Temperature Monitoring with ADB Series Sensors

### APPLICATION

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

### DESCRIPTION

ADB lug sensors are designed to monitor surface temperatures and are available with any of 4B's continuous output signals.

The lug sensor bolts directly onto a bearing housing, motor, gearbox or machine casing. The mounting hole is 3/8" from the factory, but can be drilled up to 1/2" if needed.

Lug connectors are fitted with ADB series temperature sensors. The sensors are supplied with a nine foot cable. The connections are not polarity sensitive therefore special connection requirements are eliminated, and the cable can be extended in the field.

The ADB sensor series are available in three types for continuous temperature monitoring:

1. 4-20 mA for 4B's IE-Node and PLC/DCS systems
2. NTC for 4B's Hotbus, IE-Node, and Watchdog systems
3. PT100 - RTD for PLC/DCS systems

### PART NUMBERS & ACCESSORIES

- KIT-LUG-MIL      4-20 mA Type ADB Sensor
- KIT-LUG-ADB20    NTC Thermistor Type ADB Sensor
- KIT-LUG-ADB29    PT100/RTD Type ADB Sensor
- ADBT4             ADB Sensor Tester



KIT-LUG-MIL Shown

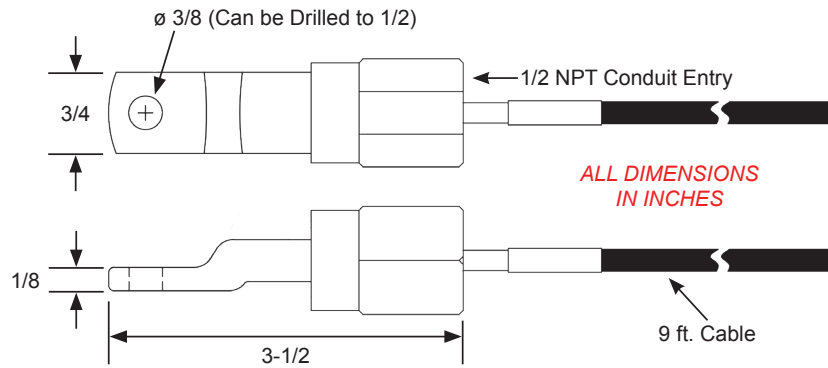
### KEY FEATURES

- Continuous Surface Temperature Monitoring
- Three Available Sensor Types
- Non-Polarity Sensitive Sensor Connections
- Simple Sensor Testing Verifies Functionality



Lug Sensor  
Installation

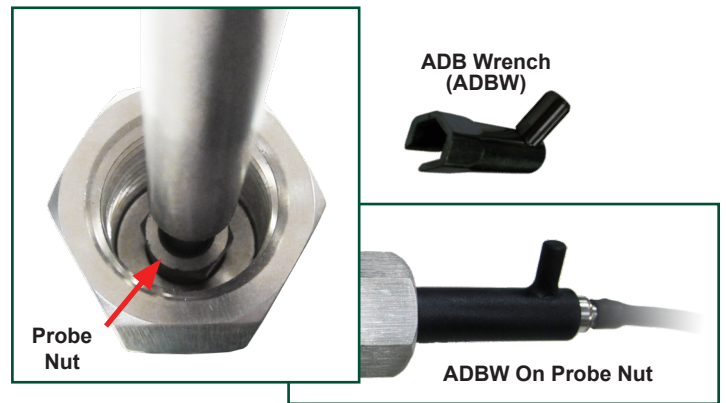
## ADB LUG SENSOR DIMENSIONS



## ADB LUG SENSOR TESTING & COMMISSIONING

4B's ADB Sensor Tester (details below) can be used as a diagnostic tool to verify the alarm and shutdown sequences of the control unit are functioning as expected.

1. To test the sensor with the ADB Tester, remove the flexible conduit from the sensor housing to expose the wire and probe.
2. Loosen the probe nut with the supplied ADB wrench (ADBW) to remove the sensor probe for testing.
3. Follow the testing procedures in the ADB Sensor Tester manual, contact 4B for any questions.
4. When testing is complete, reinstall the probe back into the lug adaptor housing. The tip of the ADB probe should be pressed firmly against the lug adaptor, there should not be any space between the probe and the adaptor.
5. Be careful not to overtighten the probe nut.



ADB Sensor Tester



The ADB Sensor Tester has been designed to test 4B adjustable depth bearing temperature sensors in the field. This hand held test unit features an integrated heating block specifically designed for 4B ADB probes. With integral controls and temperature display, the unit heats the sensor to the desired trip point, and allows quick and easy real life testing of the sensor and temperature monitoring system.

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

### **⚠ WARNING**

If the system does not immediately shutdown as expected or alarm as required, then remove the machine from service until the problem has been diagnosed and corrected.

