ADB Series
Adjustable Depth Bearing Temperature Sensors

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

METHOD OF OPERATION
The ADB series have been designed to allow the depth of the sensor to be adjustable depending on your application.

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

The ADB style sensors are available with a standard NTC thermistor for 4B’s Hotbus and Watchdog systems, or a 4-wire PT100 - RTD type for PLC and DCS systems. Both types allow for continuous temperature monitoring.

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.

FEATURES
► Adjustable Sensor Depth
► Screw in Positive Mount Installation
► Grease Zerk for Bearing Lubrication
► 1/2” NPT Conduit Entry
► 304 Stainless Steel Body
► NTC or PT100 - RTD Types
► CSA Class II Div 1 Approved

PART NUMBERS/ACCESSORIES
► ADB20V3C/D2   NTC Type: 2 Inch Probe
► ADB20V3C/D3   NTC Type: 3 Inch Probe
► ADB20V3C     NTC Type: 4 Inch Probe
► ADB20V3C/D6   NTC Type: 6 Inch Probe
► ADB20V3C/D8   NTC Type: 8 Inch Probe
► ADB20V3C/D10  NTC Type: 10 Inch Probe
► ADB20V3C/D12  NTC Type: 12 Inch Probe
► ADB29V3C/D2   PT100 - RTD Type: 2 Inch Probe
► ADB29V3C/D3   PT100 - RTD Type: 3 Inch Probe
► ADB29V3C     PT100 - RTD Type: 4 Inch Probe
► ADB29V3C/D6   PT100 - RTD Type: 6 Inch Probe
► ADB29V3C/D8   PT100 - RTD Type: 8 Inch Probe
► ADB29V3C/D10  PT100 - RTD Type: 10 Inch Probe
► ADB29V3C/D12  PT100 - RTD Type: 12 Inch Probe
► ADBT4       ADB Sensor Tester
► ADBW       ADB Probe Wrench

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.

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TECHNICAL SPECIFICATIONS
ADB Series - Bearing Temperature Sensors

<table>
<thead>
<tr>
<th>NTC Type</th>
<th>PT100 - RTD Type</th>
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<tbody>
<tr>
<td>Resistance at 77°F:</td>
<td>109.73 Ohms</td>
</tr>
<tr>
<td>Resistance at 140°F:</td>
<td>123.24 Ohms</td>
</tr>
<tr>
<td>Resistance at 194°F:</td>
<td>134.70 Ohms</td>
</tr>
<tr>
<td>Sensing Voltage:</td>
<td>5 to 24 VDC</td>
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<tr>
<td>Current Draw:</td>
<td>1 mA</td>
</tr>
<tr>
<td>Fixing Thread:</td>
<td>1/8&quot; NPT</td>
</tr>
<tr>
<td>Minimum Temp:</td>
<td>-22°F (-30°C)</td>
</tr>
<tr>
<td>Maximum Temp:</td>
<td>220°F (105°C)</td>
</tr>
<tr>
<td>Approvals:</td>
<td>CSA Class II Div 1 Groups E, F and G (USA &amp; Canada)</td>
</tr>
</tbody>
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Temperature Sensors can be used with an existing PLC/DCS or with the following 4B Hazard Monitoring Systems:

- T500 Hotbus Elite
- Watchdog Super Elite
- T400N Elite

Contact Information:
4B COMPONENTS LIMITED
625 Erie Avenue, Morton, IL 61550 USA
Tel: 309-698-5611  Fax: 309-698-5615
www.go4b.com/usa

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