Health and Safety Information

Read all of the instructions in this booklet - including all the WARNINGS and CAUTIONS - before using this product. If there is any instruction which you do not understand, DO NOT USE THE PRODUCT.

Safety Signs

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicates a potentially hazardous situation which, if not avoided, could result in death or personal injury.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury to the user or users, or result in damage to the product or to property.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NOTE</th>
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<tbody>
<tr>
<td>Indicates a potentially hazardous situation which, if not avoided, could result in damage or loss of data.</td>
</tr>
</tbody>
</table>

Signs and Symbols used on equipment and Documentation

- Caution, risk of electric shock.
- Caution, attention to possibility of risk of damage to the product, process or surroundings. Refer to instruction manual.
- Caution, hot surface.
- Protective Conductor Terminal.
- Observe precautions for handling electrostatic discharge sensitive devices.

Equipment Operation

Use of this instrument in a manner not specified by AMETEK Land may be hazardous. Read and understand the user documentation supplied before installing and operating the equipment. The safety of any system incorporating this equipment is the responsibility of the assembler.

Protective Clothing, Face and Eye Protection

It is possible that this equipment is to be installed on, or near to, machinery or equipment operating at high temperatures and high pressures. Suitable protective clothing, along with face and eye protection must be worn. Refer to the health and safety guidelines for the machinery/equipment before installing this product. If in doubt, contact AMETEK Land.

Electrical Power Supply

Before working on the electrical connections, all of the electrical power lines to the equipment must be isolated. All the electrical cables and signal cables must be connected exactly as indicated in these operating instructions. If in doubt, contact AMETEK Land.

Storage

The instrument should be stored in its packaging, in a dry sheltered area. The maximum storage temperature is 10°C (18°F) higher than the maximum operating temperature. The minimum storage temperature is 10°C (18°F) lower than the minimum operating temperature. Refer to the Technical Specification for details of the operating temperature limits.

Unpacking

Check all packages for external signs of damage. Check the contents against the packing note.

Lifting Instructions

Where items are too heavy to be lifted manually, use suitably rated lifting equipment. Refer to the Technical Specification for weights. All lifting should be carried out in accordance with local and national regulations.
Technical Specification for weights. All lifting should be carried out in accordance with local and national regulations.

Where items are too heavy to be lifted manually, use suitably rated lifting equipment. Refer to the Lifting Instructions before working on the electrical connections, all of the electrical power lines to the equipment must be isolated. All the electrical cables and signal cables must be connected exactly as indicated in these operating instructions. If in doubt, contact AMETEK Land.

Before working on the electrical connections, all of the electrical power lines to the equipment must be isolated. All the electrical cables and signal cables must be connected exactly as indicated in these operating instructions. If in doubt, contact AMETEK Land.

Electrical Power Supply

It is possible that this equipment is to be installed on, or near to, machinery or equipment operating at high temperatures and high pressures. Suitable protective clothing, along with face and eye protection, should be worn when working around this equipment. It is possible that this equipment is to be installed on, or near to, machinery or equipment operating at high temperatures and high pressures. Suitable protective clothing, along with face and eye protection, should be worn when working around this equipment.

Equipment Operation

Operation of radio transmitters, telephones or other electrical/electronic devices in close proximity to the equipment while the enclosure doors of the instrument or its peripherals are open, may cause interference and possible failure where the radiated emissions exceed the EMC directive.

The protection provided by this product may be invalidated if alterations or additions are made to the structural, electrical, mechanical, pneumatic, software or firmware components of this system. Such changes may also invalidate the standard terms of warranty.

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INSTALLATION DIMENSIONS
1 Installation Dimensions

1.1 Water Cooled Jacket Installation Dimensions

Mountings can be used with Pan & Tilt Bracket (Part No. 806761).
1.2 Pan & Tilt Mounting Installation Dimensions

Bracket fits to M6 tapped holes in mounting pads

Pan & Tilt Bracket (Part No. 806761)
AIR & WATER SPECIFICATIONS
2. Air & Water Specifications

2.1 Maximum recommended limits

<table>
<thead>
<tr>
<th>Specification</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water pressure</td>
<td>6 bar</td>
</tr>
<tr>
<td>Air pressure</td>
<td>3 bar</td>
</tr>
<tr>
<td>Water flow rate</td>
<td>1 litre per min / 0.26 US gal per min</td>
</tr>
<tr>
<td>Inlet water temperature</td>
<td>45 °C / 113 °F</td>
</tr>
<tr>
<td>Outlet water temperature</td>
<td>50 °C / 122 °F</td>
</tr>
</tbody>
</table>

2.2 Maximum ambient temperature

The maximum ambient temperature depends on water inlet temperature and flow rate (See Fig. 2-1).
INSTALLATION
### Installing the SPOT Thermometer in the Water Cooled Mounting

**Note**
The Water Cooled Mounting is supplied fitted with a cable gland for the Power over Ethernet (PoE) cable, and a Blanking Plug fitted in the Analogue Cable port. If you want to use an Analogue cable, you will need to replace the Blanking Plug with a Large Connector Sealed Gland (M25) (Land Part Nº 810481), available from Land Instruments International. Refer to Section 3.1 in addition to the following instructions.

1) Fig. 3-1 shows a SPOT Thermometer, with Water Cooled Mounting and Power over Ethernet (PoE) cable.

![Fig. 3-1](image1)

2) Unclip the fastener on the Water Cooled Mounting and open the hinged Back Cap (Fig. 3-2).

![Fig. 3-2](image2)
3) Insert the SPOT Thermometer into the Water Cooled Mounting and secure it in place with the Sprung retainer clip (Fig. 3-3).

4) Unscrew the cable gland shell and split bush from the Water Cooled Mounting. Slide the PoE Cable through the gland shell and fit the split bush between the gland shell and the connector (Fig. 3-4).

5) Slide the PoE Cable through the cable gland and attach it to the Thermometer connector (Fig. 3-5).

6) Slide the split bush into the cable gland and tighten the gland shell. Make sure that the cable is not stretched. Do not over-tighten the gland shell.

7) Close the hinged Back Cap and secure it in place with the fastener (Fig. 3-6). The Thermometer is now installed in the Water Cooled Mounting.

If you are using an Analogue Cable in addition to (or instead of) the PoE cable, refer to Section 3.1.
3.1 Using an Analogue Cable

1) For the Analogue Cable, unscrew the Blanking Plug from the Water Cooled Mounting.

2) Disassemble the M25 Cable Gland. **Note:** The Hexagonal Locknut is not required for this installation.

3) Slide the Analogue Cable connector through the gland outer shell and the seal washer (Fig. 3-7).

4) Fit the split bush between the washer and the main body of the gland.

5) Insert the Analogue Cable into the connector on the rear of the thermometer.

6) Tighten the cable gland into the body of the thermometer.

7) Close the hinged Back Cap and secure it in place with the fastener (Fig. 3-6).

The Thermometer is now installed in the Water Cooled Mounting.
Blank