

PRT External Air Temperature Sensor

Important: Retain these instructions

These instructions shall be used by trained service personnel only. If the equipment is used in a manner not specified by these instructions, the protection provided by the equipment may be impaired.

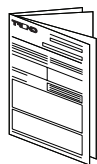
<https://partners.trendcontrols.com>



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1 BOX CONTENTS



T-PO
Installation Instructions
(TG201419)

2 INSTALLATION



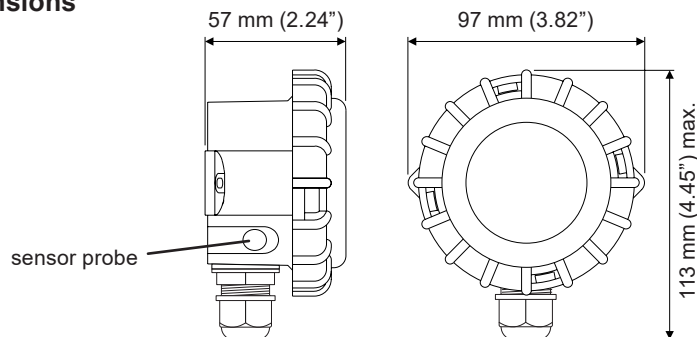
ATTENTION: Observe precautions for handling electrostatic sensitive devices.



It is recommended that the installation should comply with the local electrical safety installation practices (e.g. HSE Memorandum of Guidance on Electricity at Work Regulations 1989, USA National Electric Code).

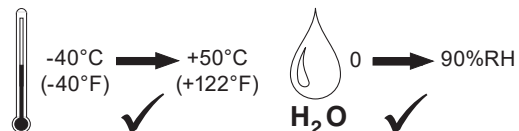
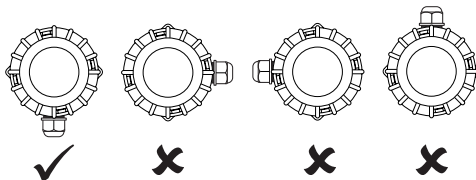
1

Dimensions

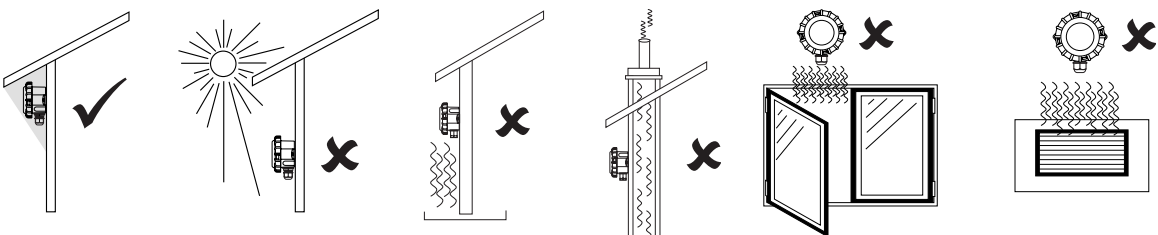


2

Mounting Requirements



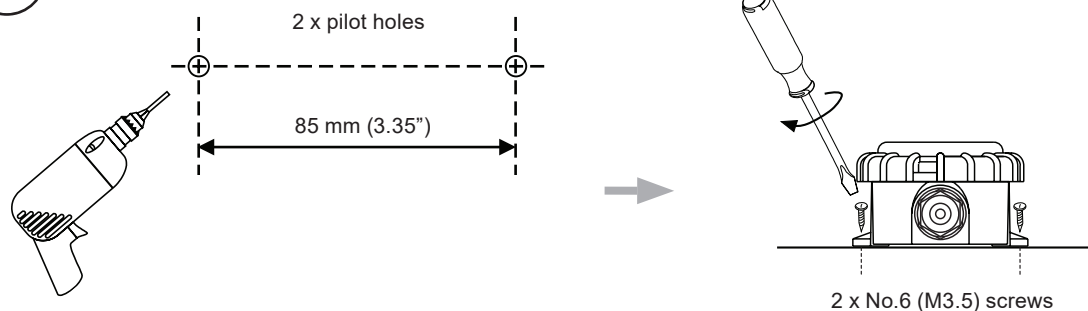
Protection: IP67, NEMA6



2 INSTALLATION (continued)

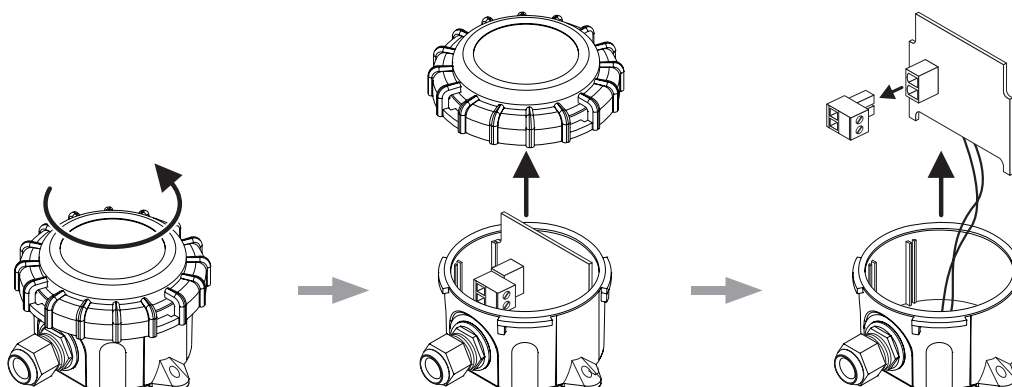
3

Mount Unit



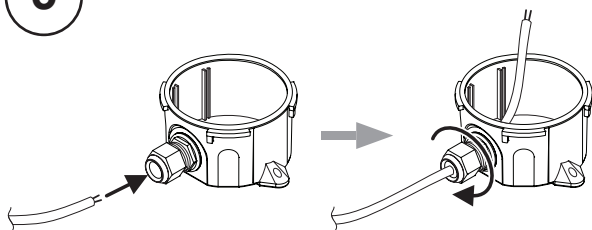
4

Remove Lid, PCB & Connector



5

Insert Cable

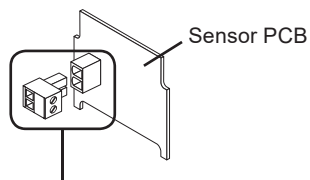


Recommended cable: Trend TP//22/HF/200 (Belden 8761)

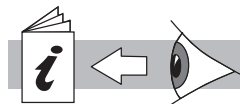
Note: Rigid or flexible 20mm PVC conduit may be used as an alternative to the supplied cable gland, in which case remove the cable gland and secure the conduit directly to the box using a suitable adapter.

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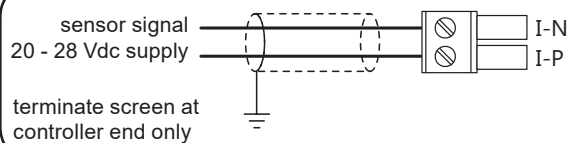
Wire to Controller



Terminal size: 0.5 to 2.5 mm² (20 to 14 AWG)



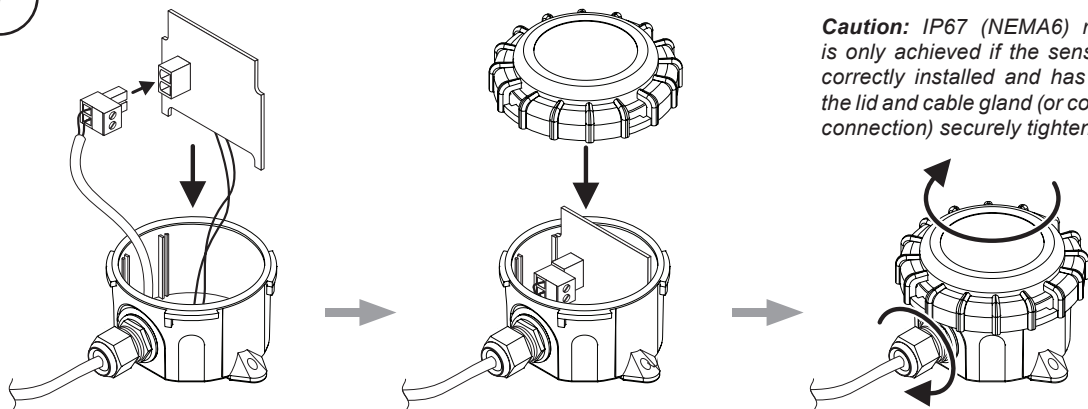
Refer to controller installation instructions for details of input type and required connections.



2 INSTALLATION (continued)

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Refit Connector, PCB & Lid

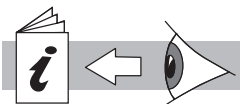


Caution: IP67 (NEMA6) rating is only achieved if the sensor is correctly installed and has both the lid and cable gland (or conduit connection) securely tightened.

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Configure Controller

Use IQSET to configure the Sensor Type and External Sensor strategy modules as required.



IQSET Manual (TE200147)
 IQ4 Configuration Manual (TE201263)
 IQ3 Configuration Manual (TE200768)
 IQ Configuration Manual (90-1533)
 IQeco Configuration Manual (TE201089)

Setting the Sensor Type

For the following controller types:

IQ4 series,
 IQ3 series,
 IQ2 series (with firmware version 2.1 or greater)

configure the Sensor Type by selecting one of the following Unique Sensor References:

PRT I -40+50 (for systems using °C)
PRT I -40+122 F (for systems using °F)

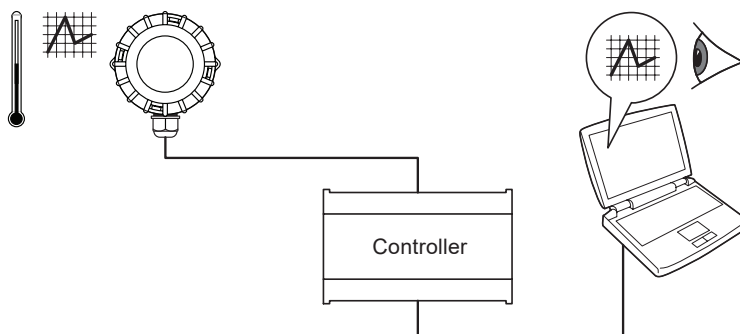
Alternatively set scaling mode to 5 (characterise) and enter scaling parameters manually as defined in the following table.

Units		°C	°F
Y	Input type	2 (current)	
E	Exponent	3	
U	Upper	50	122
L	Lower	-40	-40
P	Points	2	
x	Ix	Ox	
1	4	-40	-40
2	20	50	122

Note: For IQ3/4 the scaling mode and exponent (E) do not need to be set up.

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Test Operation



3 CLEANING AND MAINTENANCE

There are no serviceable parts inside the unit. Periodic cleaning of the unit should be carried out in order to avoid buildup of dust or other containments. Disconnect power before carrying out any cleaning.

4 DISPOSAL

**WEEE Directive:**

At the end of their useful life the packaging and product should be disposed of by a suitable recycling centre.

Do not dispose of with normal household waste.
Do not burn.

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TR CU Certification

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