

STA206MKII USER GUIDE

TEMPERATURE SENSOR WITH INTEGRAL TRANSMITTER
TWO WIRE (4 to 20) mA OUTPUT

Important - Please read this document before installing.

Every effort has been taken to ensure the accuracy of this document; however we do not accept responsibility for damage, injury, loss or expense resulting from errors and omissions, and we reserve the right of amendment without notice.

IMPORTANT – CE, UKCA & SAFETY REQUIREMENTS

The product contains no serviceable parts, or internal adjustments. No attempt must be made to repair this product. Faulty units must be returned to supplier for repair. This product must be installed by a qualified person. All electrical wiring must be carried out in accordance with the appropriate regulations for the place of installation. Before attempting any electrical connection work, please ensure all supplies are switched off.

ABSOLUTE MAXIMUM CONDITIONS (To exceed may cause damage to the unit).	
Supply Voltage	± 30 V dc (Protected for over-voltage and reverse connection)
Current with over-voltage	± 100 mA
Measurement range	(-20 to 250) °C
Protection class	IP65
Ambient conditions	Temperature (-40 to 85) °C, Humidity (10 to 95) % RH (Non-condensing)



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1~DESCRIPTION.

The device is a cost-effective sensor and transmitter assembly housed in a 316 Stainless Steel body with an integral Pt100 sensor, transmitter and DIN connector. The device converts sensor output over a configured range to a standard industrial (4 to 20) mA transmission signal.

PC configuration allows the user to select range, units and burnout direction, without requiring calibration equipment. Configuration is performed quickly using our USB port-driven configurator.

Calibration set up may be saved as a file on the PC for later use. If required, the desired range can be specified at the time of order, removing the need for user configuration.

2~RECEIVING AND UNPACKING.

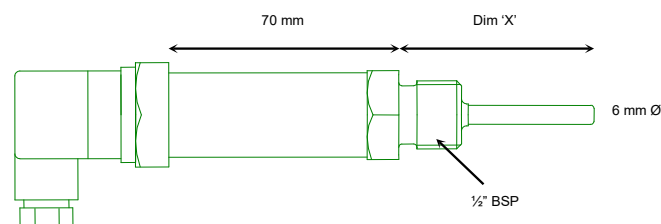
Please inspect the packaging and instrument thoroughly for any signs of transit damage. If the instrument has been damaged, please notify your supplier immediately.

3~SPECIFICATION.

Refer to data sheet for full specification.

Configuration	
Factory default	(0 to 100) °C, upscale burnout, 0.0°C offset

4~INSTALLATION AND WIRING.



Dim X = User specified.

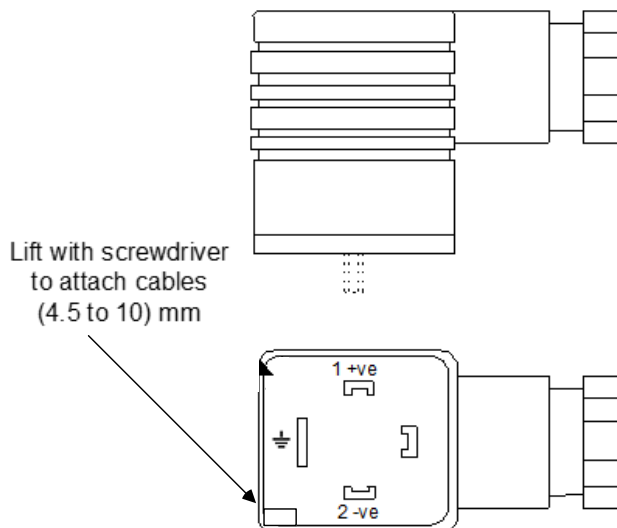
4.1~MECHANICAL.

The device is mounted using a 1/2 inch BSP thread. The device must be installed with adequate protection from moisture and corrosive atmospheres. Care must be taken to ensure the device is located so the ambient temperature does not exceed the specified operating temperature.

4.2~ELECTRICAL.

Input sensor electrical connections to the transmitter are internal. If no sensor (input) connection is detected, the transmitter will go into either up or down scale output current, depending on configuration setting.

TURN OFF SUPPLY BEFORE WORKING ON ANY ELECTRICAL CONNECTION



(4 to 20) mA Loop connections.

Ensure all other aspects of the installation comply with the requirements of this document. To maintain CE compliance, the (4 to 20) mA current loop must be tied to a local earth at one point; this is normally at the power supply.

Connections	
Pin 1	Positive connection
Pin 2	Negative connection
Pin 3	Not internally connected
GND/EARTH	Not internally connected

Use twisted pair or screened cables for cable lengths greater than 30 metres. Maximum cable length 1000 metres.

5~USER CONFIGURATION.



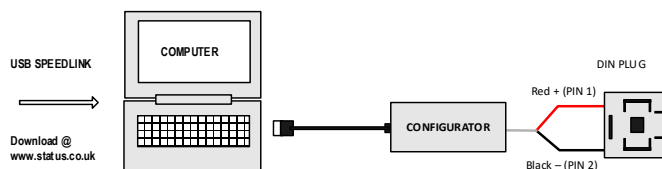
IMPORTANT

READ COMPLETE SECTION BEFORE ATTEMPTING CONFIGURATION.

IMPORTANT

Do not attempt to configure the unit when connected to a loop supply.

A USB configuration module is required for connecting the unit to the PC. Refer to your supplier for details.



Install the software and connect the USB configuration module

Configuration steps	
Install the software and connect the USB configuration module to the PC.	
Connect the configuration module to the device (removed from any loop supply).	
Select the correct programming page in the software.	
Read the unit configuration into the software.	
Re-configure or adjust configuration options as required.	
Send the new configuration to the unit.	

Configuration options in software	
Temperature units	°C or °F
Low range 4 mA	Any °C/°F point within range
High range 20 mA	Any °C/°F point within range



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