

TTC200 SMART THERMOCOUPLE TRANSMITTER USER MANUAL



IMPORTANT - CE & SAFETY REQUIREMENTS

This product must be mounted inside a suitable enclosure providing environmental protection = > IP54.

To maintain CE compliance all input wires must be less than 3 metres.

The product contains no user serviceable parts, or internal adjustments. No attempt should be made to repair this device. Faulty units must be returned to supplier or manufacturer for repair or replacement.

This product must be installed by competent qualified personnel.

All electrical wiring must be installed to comply with the area standards, regulations.

Before attempting electrical connection ensure all supplies are switched off.

ABSOLUTE MAXIMUM OPERATING CONDITIONS :-

Supply	30 V dc (reverse protected to -30 V dc)
Supply Current on over voltage + 100 mA (when supply exceeds 30 V dc protection device will conduct)	
Input voltage	± 3.0 V
Ambient	(-40 to 85) °C



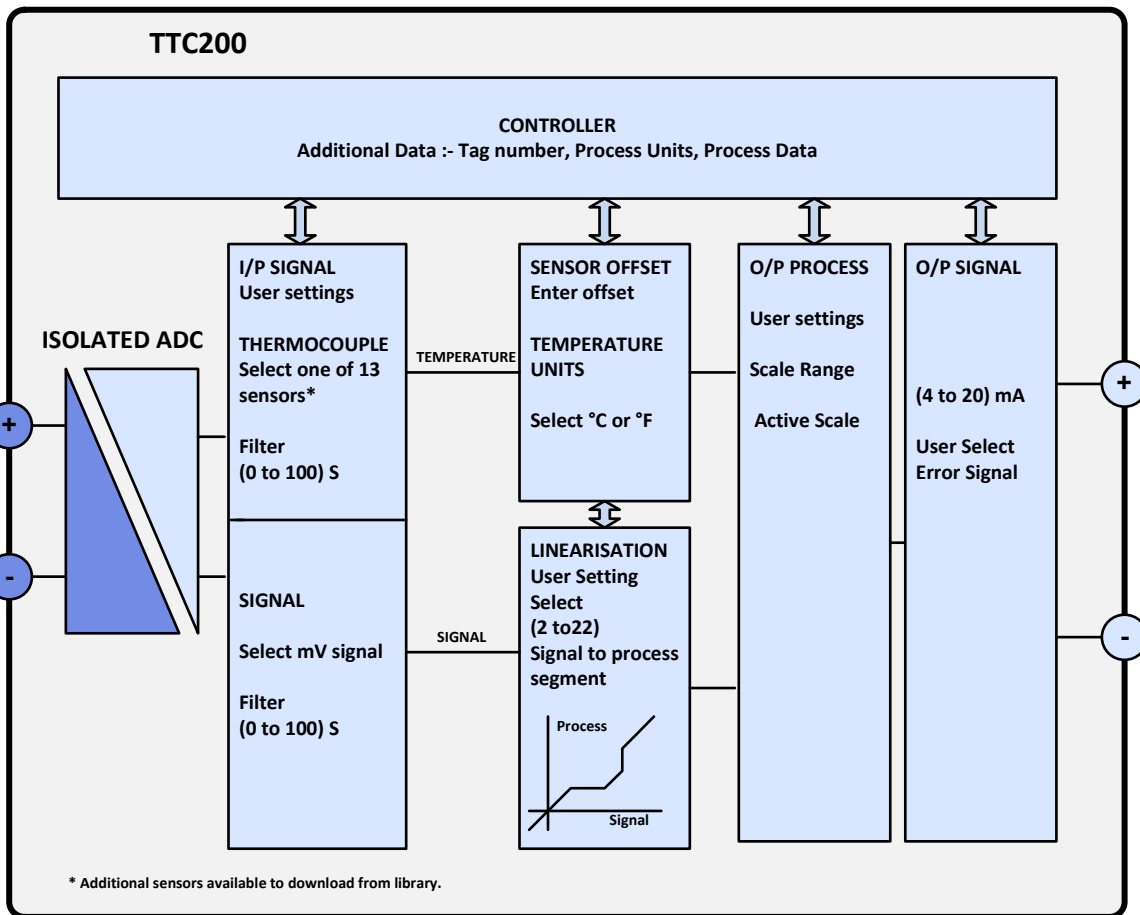
PLEASE REFER TO THE PRODUCT LABEL FOR MANUFACTURERS CONTACT DETAILS.

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.

RECEIVE 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.

OPERATION (please refer to data sheet for full technical specification.)



CONFIGURATION

USB Configuration Kit required.

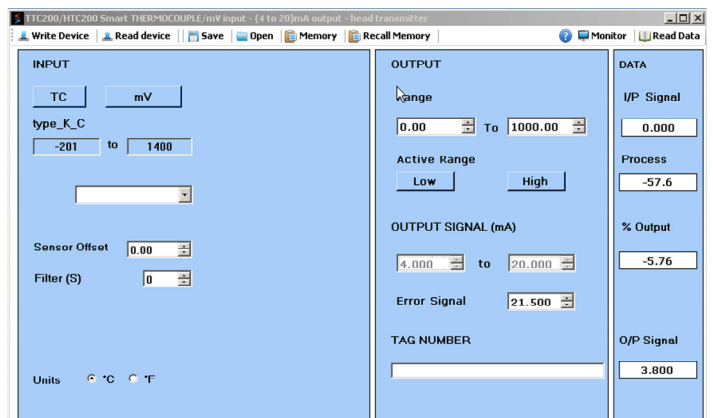
This product is configured using the USB port of a PC running USB_Speed_Link software, available from your suppliers web site. During configuration the product is powered direct from the usb port, removing the need for additional power. USB_Speed_Link software is provided with detailed help menu to guide the user through the simple configuration procedure. Unless specified at the time of order this product is supplied with the default configuration listed below.

Connect red wire to + terminal, black wire to - terminal of the (4 to 20) mA loop.



Factory default:

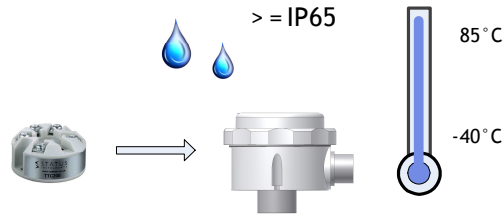
Input range	= Type K
Process Range	= (0 to 1000)
Units	= °C
Output range	= (4 to 20)
mA	
Filter	= off
User offset	= 0.0 °C
Tag	= " "



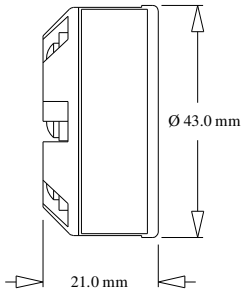


MECHANICAL INSTALLATION

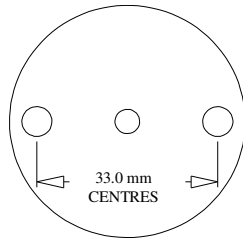
MOUNTING



SIDE VIEW



BASE VIEW



The TTC200 is mounted using two 5.5 mm holes, on standard 33 mm fixing centres and will fit a DIN standard termination head.
 The TTC200 must be installed with adequate protection from moisture and corrosive atmospheres.
 Enclosure colour grey.
 Labels - Two product identification labels indicate Serial number , Model, Input Type Range.
 Connection label indicates output +/- terminals and (1 to 3) Input terminals.



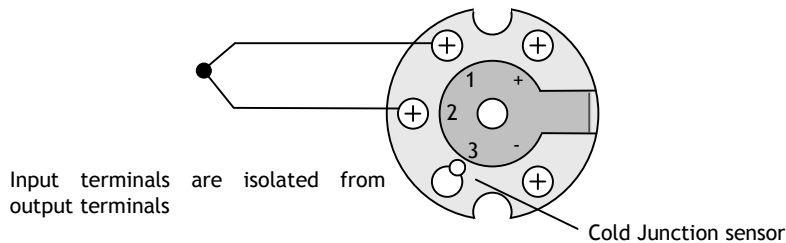
ELECTRICAL INSTALLATION

Wire sensor.

Sensor connections are as follows, to maintain BS EN61326 compliance sensor wires must be less than 3 metres. All sensor connections must be isolated from ground.

Thermocouple wiring

Use correct compensating cable



Install assembly

Care must be taken to ensure the TTC200 is located where the ambient temperature does not exceed the specified operating temperature of (-40 to 85) °C

Wire (4 to 20) mA Loop

Ensure all other aspects of the installation comply with the requirements of this document. The (4 to 20) mA loop is connected as follows:-

