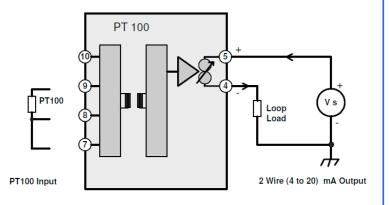
# TEM1603P User Manual

### **USER GUIDE**

DIN RAIL MOUNTED TRANSMITTER PT 100 INPUT TWO WIRE (4 to 20) mA OUTPUT









Important - Please read this document before any 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 & SAFETY REQUIREMENTS

Product must be DIN rail mounted, inside a suitable enclosure providing environmental protection to IP65 or greater.

To maintain CE EMC requirements, input wires must be less than 30 metres.

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 ± 200 mA

Input Voltage ± 5 V between any terminals Input Current

± 100 mA between terminals 7 & 10

Temperature (-30 to 75) ℃ Humidity (10 to 95) % RH (Non condensing)

# PRODUCT SPECIFICATION

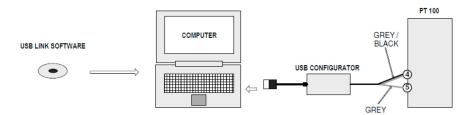
Please refer to the product data sheet for full specification.

# 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.

# CONFIGURATION

To Configure device use the USB configurator tool available from your supplier. Connect the configurator to the PC USB port, connect Red wire to terminal 5 and



The following parameter can be configured by simply entering as prompted by the software package.

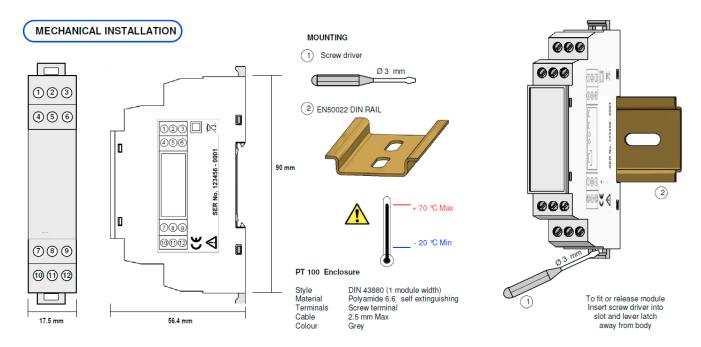
- Units (°C, °F)
- High range Low range
- Burnout (direction of output current on sensor burnout)

Factory default: Units = °C
High Range = 100
Low Range = 0
Burnout = UPSCALE

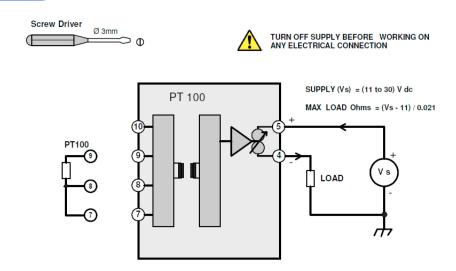
Tempatron: Eltime House, Hall Road, Maldon, Essex, CM9 4NF UK.



# **TEM1603P User Manual**



## ELECTRICAL INSTALLATION



### INPUT CONNECTION

For cable lengths < 3 Metres screen or twisted pair is not required For cable length > 3 Metres and < 30 Metres screen or twisted pair is required Cable lengths > 30 Metres are not recommended Inputs of all three wires must be equal length (resistance).

OUTPUT 2 Wire (4 to 20) mA Max cable length 1000 Metres Use twisted pair cable > 30 Metres

Tempatron: Eltime House, Hall Road, Maldon, Essex, CM9 4NF UK.



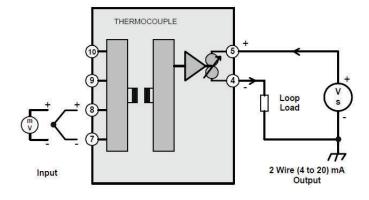
# TEM1603T User Manual

### **USER GUIDE**

DIN RAIL MOUNTED TRANSMITTER THERMOCOUPLE INPUT TWO WIRE (4 to 20) mA OUTPUT









Important - Please read this document before any 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 & SAFETY REQUIREMENTS

Product must be DIN rail mounted, inside a suitable enclosure providing environmental protection to IP65 or greater.

To maintain CE EMC requirements, input wires must be less than 30 metres

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) :-

± 30 ∨ dc (Protected for over voltage and reverse connection)

Supply Voltage Current with over voltage ± 200 mA Input Voltage

± 5 V between any terminals Input Current

± 100 mA between terminals 7 & 10
Temperature (-30 to 75) °C Humidity (10 to 95) % RH (Non condensing) Ambient

## PRODUCT SPECIFICATION

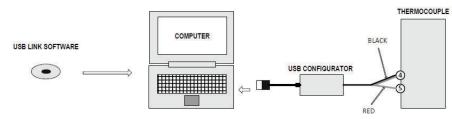
Please refer to the product data sheet for full specification.

## 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.

### CONFIGURATION

To Configure device use the USB configurator tool available from your supplier. Connect the configurator to the PC USB port, connect Red wire to terminal 5 and Black wire to terminal 4.



The following parameter can be configured by simply entering as prompted by the software package.

- Input type (K,J,E,N,T,R,S,mV)
  High range
  Low range

- · Units
- Units (°C, °F, mV)

  Burnout (direction of output current on sensor burnout)

Tempatron: Eltime House, Hall Road, Maldon, Essex, CM9 4NF UK.

Factory default:

Input type High Range

Low Range

Units

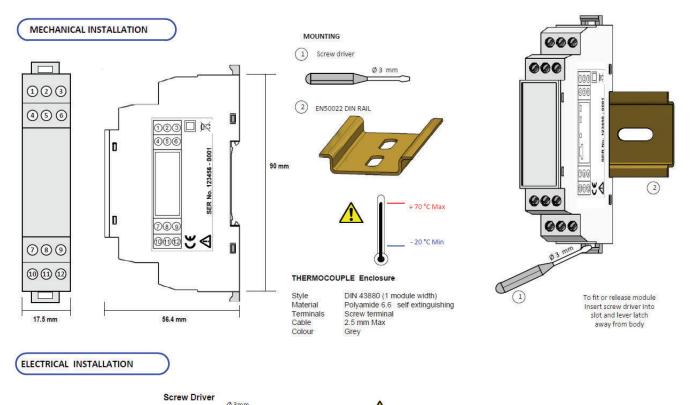
= K = 1000

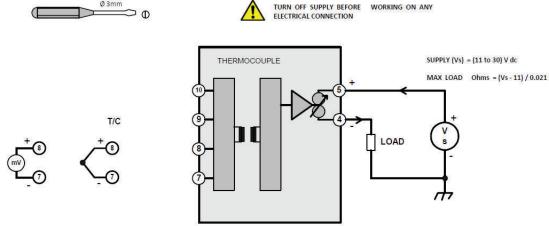
= UPSCALE

= 0



# **TEM1603T User Manual**





INPUT CONNECTION
For cable lengths < 3 Metres screen or twisted pair is not required
For cable length > 3 Metres and < 30 Metres screen or twisted pair is required
Cable lengths > 30 Metres are not recommended
T/C Inputs must use the correct compensation cable

OUTPUT 2 Wire (4 to 20) mA Max cable length 1000 Metres Use twisted pair cable > 30 Metres

Tempatron: Eltime House, Hall Road, Maldon, Essex, CM9 4NF UK.

