

TEM18T User Manual

IMPORTANT - CE & SAFETY REQUIREMENTS

Important - Potentially Hazardous situations. Persons responsible for the installation and operation of this equipment must be fully aware of all aspects of this guide. Failure to follow the instructions can cause severe injuries and damage.

This product is suitable for environment Installation category II pollution degree. The product is classed as "PERMANENTLY CONNECTED EQUIPMENT", and must be DIN rail mounted, inside a suitable enclosure providing environmental protection to IP65 or greater.

DC supply must be derived from a local supply and not a distribution system.

To maintain CE EMC requirements, input and supply 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.

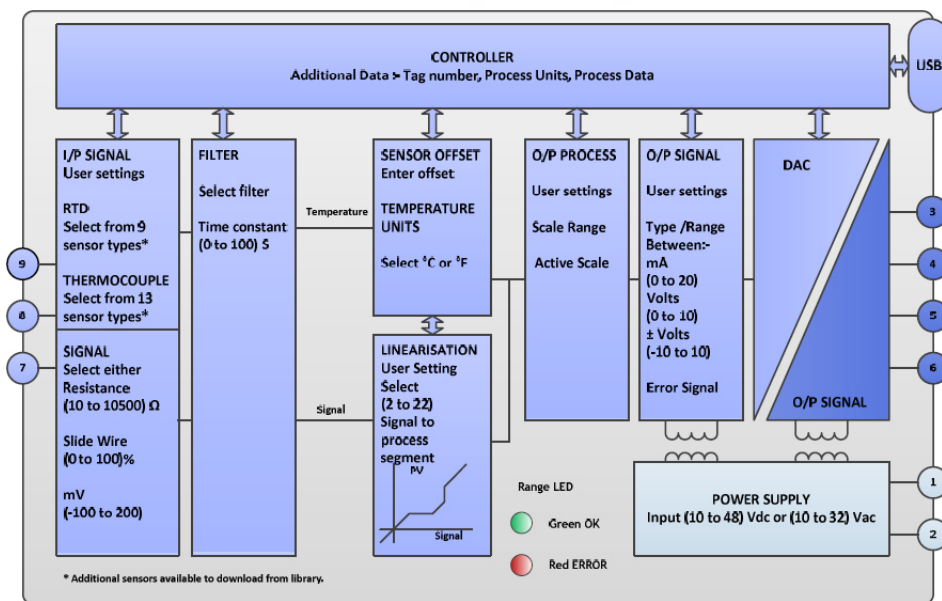
ABSOLUTE MAXIMUM CONDITIONS (To exceed may cause damage to the unit):-

Supply Voltage	± 50 V dc (Protected for over voltage and reverse connection)
Current with over voltage	± 200 mA
Input Voltage	± 24 VDC, 24 V rms between any terminals
Input Current	± 30 mA between terminals
Ambient Temperature	(-30 to 75) °C
Humidity (10 to 95) % RH (Non condensing)	

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.)



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

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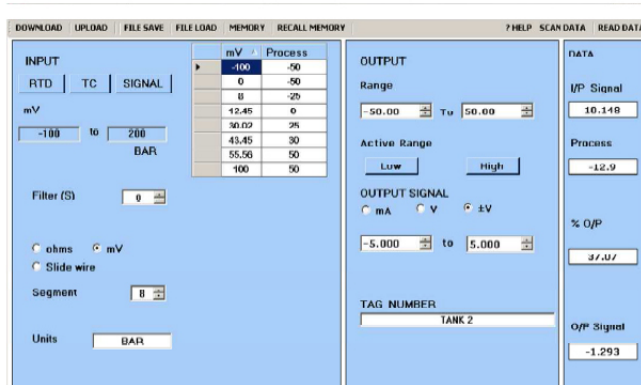
CONFIGURATION

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. If the user wishes to monitor live process data during configuration, then powered must be applied. Note the input and USB port of the device share the same ground, therefore care must be taken to ensure isolation between PC and input circuit. This is best achieved by using a portable laptop or notebook PC. 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.

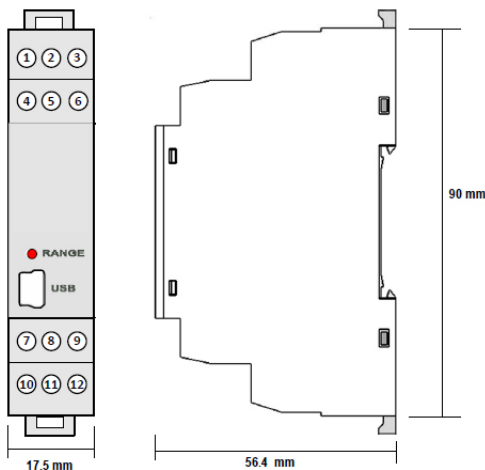


Factory default:

Input Type	= PT100 (IEC)
Input Range	= (-205 to 855) °C
Units	= " °C "
Process Output	= (0 to 100) °C
Output range	= (4 to 20) mA
Filter	= off
User offset	= 0.0 °C
Tag	= " "
Error Signal	= 21.00 mA



MECHANICAL INSTALLATION

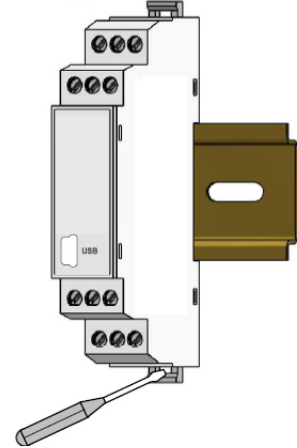


Style	DIN 43880 (1 module width)
Material	Polyamide 6.6 self extinguishing
Terminals	Screw terminal
Cable	2.5 mm Max
Colour	Grey

MOUNTING



TOP



To fit or release module
Insert screw driver into slot and lever latch away from body

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ELECTRICAL INSTALLATION

1.0 TURN OFF SUPPLY BEFORE WORKING ON ANY ELECTRICAL CONNECTION.
2.0 SUPPLY IS OVER VOLTAGE PROTECTED AND FUSED WITH AN INTERNAL RESETTABLE FUSE.

CONNECTION
For cable length < 3 Metres no screen or twist pair required.
Use recommended types for cable length (3 to 30) metres.

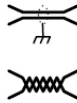
Input Wires

Resistance slide
thermocouple wire
Screened Cable



Output Wires

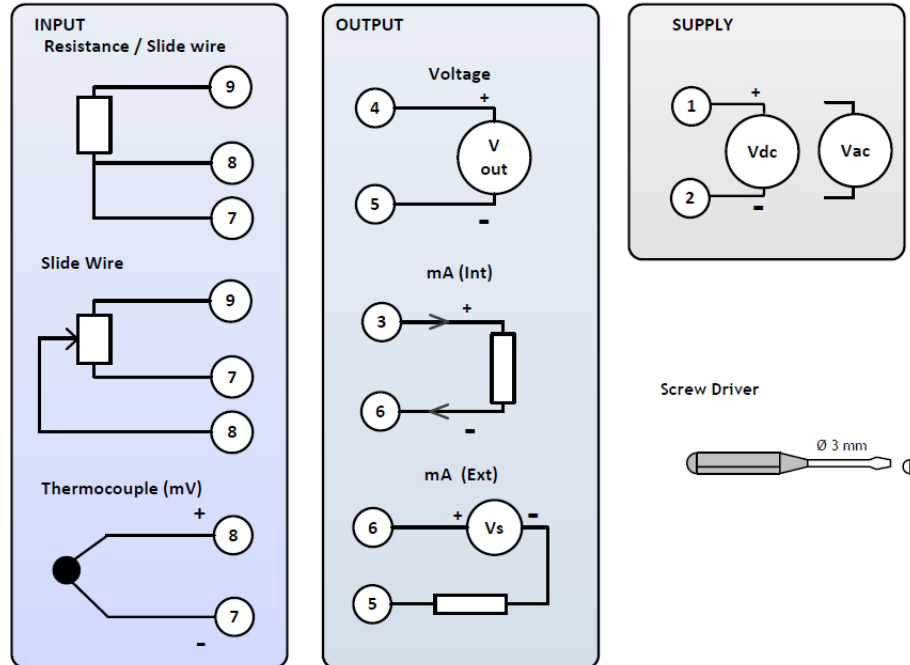
Screened cable or
twisted pair



Note:

Open circuit signal detection is not available
on mV Input (Pins 7 & 8) .

Short circuit, mV Input (Pins 7 & 8) will read
0 mA at Input



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