QUICK START GUIDE (T30 INSTALLATION NOTES)

RULES FOR THE CORRECT INSTALLATION OF THE T30 CONTROL UNIT

In order to guarantee the correct and reliable operation of the transformer temperature control system, follow the instructions supplied in this document about the installation of the control unit and the connection of the temperature sensors.

SAFETY REQUIREMENTS

ATTENTION:

Read the manual carefully before starting to use the control unit. Keep the instructions for future reference.

Do not open the device, touching any internal components can cause electric shock. Contact with a voltage over 50 Volts can be fatal. To reduce the risk of electric shock, do not dismantle the device for any reason. Moreover its opening would void the warranty.

Before connecting the device to the power supply, make sure that all the connections are correct. Always disconnect the unit from the supply before any cabling modification.

Any work on the equipment must be entrusted to a qualified engineer.

Failure to comply with these instructions can cause damages, fires or electric shock, and possible serious injuries!

POWER SUPPLY
The T30 control unit can be supplied by 240 Vac or 120 Vac, according to the model purchased.
Before using it, make sure the power cable is not damaged, knotted or pinched. Do not tamper with the power cable. Never disconnect the unit by pulling the cable, avoid touching the pins. Do not carry out any connecting/disconnecting with wet hands. To disconnect the device, do not use objects such as levers. Immediately disconnect the device if you smell burning or see any smoke: contact technical service.

LIQUIDS
Do not expose the equipment to splashes or drops, do not position it in places with humidity exceeding 90% and never touch with wet or humid hands during storms. If any liquid penetrates the control unit, disconnect it immediately and contact technical service.

CLEANING
Disconnect the power cable before cleaning the control unit, use a dry cloth to dust it, without any solvent or detergents, and compressed air.

OBJECTS
Never insert any objects into the cracks of the control unit. If this happens, disconnect the control unit and contact an engineer.

USE RESERVED TO QUALIFIED PERSONNEL
The purchased goods are a sophisticated electronic device that is totally unsuitable to be used by non-qualified personnel. Any work must be carried out by a specialist engineer.

ACCESSORIES
The use of non-original accessories or spare parts can damage the unit and endanger users' safety. In the event of faults, contact technical service.

LOCATION
Install the control unit indoors, in a place protected from water splashes and sun rays. Do not place near heat sources exceeding the parameters stated in this manual. Position on a stable surface, far from any possible vibrations. Position the unit as far as possible from any intense magnetic fields.

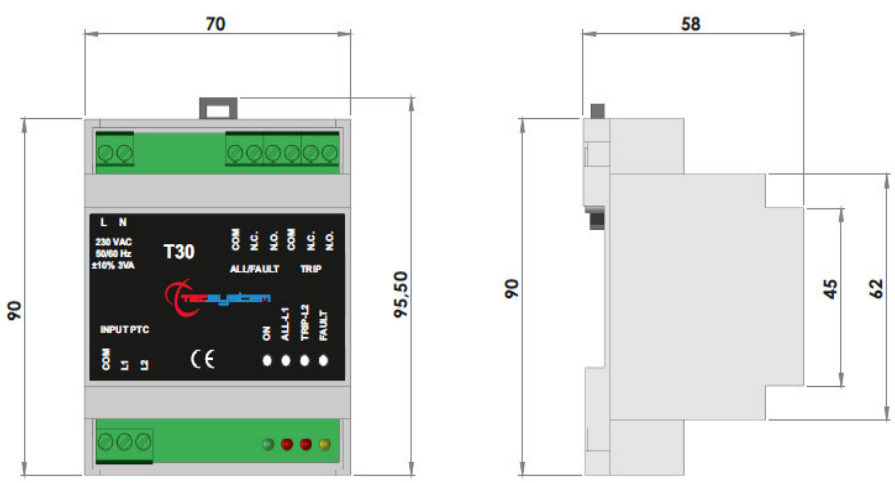
REPAIRS
Do not open the control unit. For any fault, always use qualified personnel. The opening of the control unit and/or the removal of the series identifying label entails the automatic forfeiture of the warranty. The Warranty seal is applied to all devices, any attempt to open the unit would break the seal and cause the consequent automatic forfeiture of the warranty.

FITTING THE CONTROL UNIT

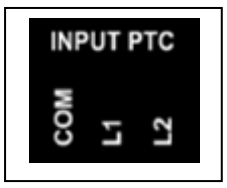
The temperature control unit must be fitted on a panel complying with the following instructions:

- The device is designed to be DIN track mounting
- Do not position the device near any heat sources or strong magnetic fields.
- Operating temperature from -20°C to 60°C
- Maximum humidity 90% (non-condensing)
- Indoor work environment (protected by splashes and sun rays)
- Dimension 70x90 mm depth 58mm.

Dimensions of the unit:



ELECTRICAL CONNECTIONS

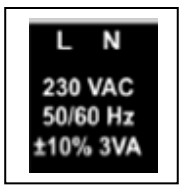


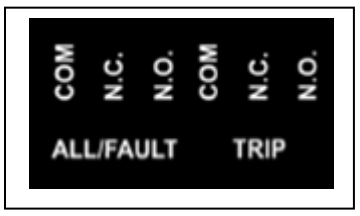
SENSORS

2 lines (L1 and L2) inputs for PTC sensor, according to the DIN 44081 and 44082 standards.

The **T30** control unit can be supplied **by 240 Vac or 120 Vac**, according to the model purchased, 50/60Hz ±10%.

Before powering the device, always check the supply parameters printed on the label **L-N** .

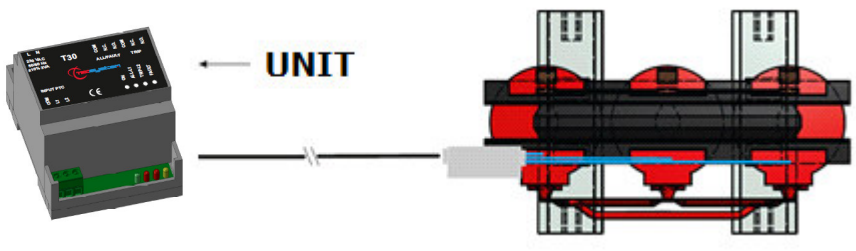




RELAYS

Output relay with 5A-250Vac-res COSΦ=1 contacts.

CONNECTION FROM THE SCS BOX / SENSORS TO THE CONTROL UNIT



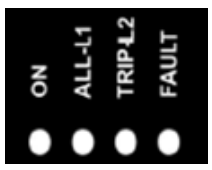
To connect the PTC sensors correctly between the SCS box and the temperature control unit, comply with the following instructions rigorously:

Installation rules:

- The sensors' signal transfer cable must not be near any electrical cables, either low or medium-high voltage.
- The Ptc cable and the signal transfer cable must be laid in a straight line, without any winding.
- Any caps used to butt conductors must be crimped properly to avoid false contacts.

If you do not comply with the instructions supplied, there may be anomalies in the temperature reading for which TECSYSTEM cannot be held responsible.

LED SIGNAL:



LED ON: **"ON"** The device is powered correctly, **"OFF"** The device is not powered correctly

ALL-L1 LED: "ON" L1 trip threshold exceeded, **"OFF"** temperature below the L1 trip threshold.

TRIP-L2 LED: "ON" L2 trip threshold exceeded, **"OFF"** temperature below the L2 trip threshold.

FAULT LED - ALL1 LED and TRIP-L2 LED *flashing: see **PTC SENSOR FAULT DIAGNOSIS**.*

PTC SENSOR FAULT DIAGNOSIS

If one of the PTCs is short-circuited or open you get the following warnings:

PTC alarm	ALL-L1	FAULT + ALL-L1 LEDs are flashing
PTC TRIP release	TRIP-L2	FAULT+TRIP-L2 LEDs are flashing

ATTENTION:

We recommend you check the indication of the unit before starting the device.

TO DOWNLOAD THE COMPLETE "T30 INSTRUCTION MANUAL", USE* THE QR CODE ON THE CONTROL UNIT OR CONNECT TO THE TECSYSTEM WEBSITE (www.tecsystem.it)

INSTRUCTION

MANUAL

TECHNICAL INFORMATION : Mail: ufficiotecnico@tecsystem.it — tel: 02/4581861

*download the QR CODE READER application to your smartphone / tablet and you will be ready to read all Q codes

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