

# PT100 SIMULATOR INSTRUCTIONS

## RULES FOR THE CORRECT INSTALLATION OF THE PT100 SIMULATOR

In order to guarantee the correct and reliable operation of the device, follow the instructions supplied in this document about the installation of the Pt100 simulator.

### SAFETY REQUIREMENTS

#### ATTENTION:

Read this document carefully before starting to use the unit. Keep the instructions for future reference.

Do not open the device, touching any internal components can cause electric shock. 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 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!

The Pt100 simulator must be used with a Tecsystem Pt100 product.

Before using it, make sure the power cable is not damaged, knotted or pinched. Do not tamper the connection 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 unit, disconnect it immediately and contact technical service.

### CLEANING

Disconnect the power cable before cleaning the 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 unit. If this happens, disconnect the 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 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 unit. For any fault, always use qualified personnel. The opening of the 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.

## TECHNICAL SPECIFICATIONS

### PT100 SIMULATOR

#### ELECTRICAL FEATURES

2 channel outputs Pt100 CH1-CH4-regulator 100-200Ω

from 0°C to 266°C

2 channel outputs Pt100 CH2-CH3 fixed Simulation 118 Ω and 147Ω

48°C and 124°C

Connection with 12 poles terminal pitch 5

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Connection cable length 60cm

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#### MECHANICAL FEATURES

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Dimensions: 106x90mm – h.83mm

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NORYL UL 94V0 self-extinguishing housing

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Ambient operating temperature from -20°C to +60°C

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Humidity 90% no-condensing

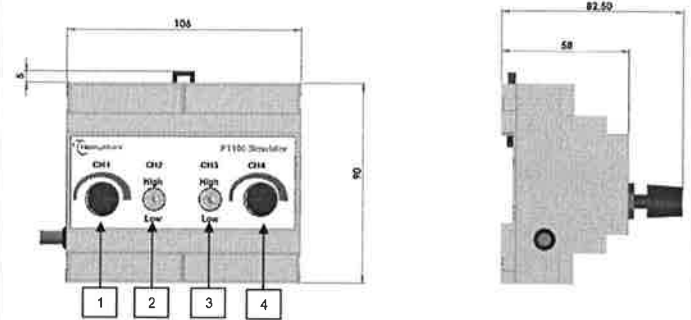
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## FITTING/USING THE DEVICE

PT100 SIMULATOR 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).

Dimensions and operation of the device:



- CH1 100-200Ω adjustment with potentiometer, simulated temperature: from 0 °C to 266 °C ± 5%
- CH2 control with simulation fixed 118 Ω 147Ω Low and High, simulated temperature: 48 °C and 124 °C ± 5%
- CH3 control with simulation fixed 118 Ω 147Ω Low and High, simulated temperature: 48 °C and 124 °C ± 5%
- CH4 100-200Ω adjustment with potentiometer, simulated temperature: from 0 °C to 266 °C ± 5%

### CONNECTION

Connect the simulator, using the appropriate plug, at the Pt100 input of the unit to be tested.

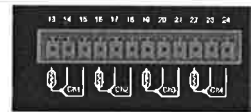


### LOCATION

Install the 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 unit. For any fault, always use qualified personnel. The opening of the 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.



Pt100 inputs unit

### RULES FOR WARRANTY

The Product purchased is covered by the manufacturer's or seller's warranty at the terms and conditions set forth in the "Tecsystem s.r.l.'s General Conditions of Sale", available at [www.tecsystem.it](http://www.tecsystem.it) and / or in the purchase agreement.

The warranty is considered valid only when the product is damaged by causes attributable to TECSYSTEM srl, such as manufacturing or components defects.

The warranty is invalid if the Product proves to have been tampered with / modified, incorrectly connected, because of voltages outside the limits, non-compliance with the assembly and use technical data, as described in this instruction manual.

The warranty is always ex Corsico as stated in the "General Conditions of Sale".

### EQUIPMENT DISPOSAL

European directives 2012/19/EC (WEEE) and 2011/65/EC (RoHS) have been approved to reduce electrical and electronic waste and promote the recycling and reuse of the materials and components of said equipment, cutting down on the disposal of the residues and harmful components of electrical and electronic materials.



All the electrical and electronic equipment supplied after 13 August 2005 is marked with this symbol, pursuant to European directive 2002/96/EEC on electrical and electronic waste (WEEE). Any electrical or electronic equipment marked with this symbol must be disposed of separately from normal domestic waste.

Returning used electrical devices: contact TECSYSTEM or your TECSYSTEM agent for information on the correct disposal of the devices.

TECSYSTEM is aware of the impact its products have on the environment and asks its customers active support in the correct and environmentally-friendly disposal of its device.

TO DOWNLOAD THIS DOCUMENT, USE\* THE QR CODE ON THE UNIT OR CONNECT TO THE TECSYSTEM WEBSITE ([www.tecsystem.it](http://www.tecsystem.it))



### INSTRUCTION



MANUAL

TECHNICAL INFORMATION : Mail: [ufficiotecnico@tecsystem.it](mailto: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



# PTC SIMULATOR INSTRUCTIONS

## RULES FOR THE CORRECT INSTALLATION OF THE PTC SIMULATOR

In order to guarantee the correct and reliable operation of the device, follow the instructions supplied in this document about the installation of the PTC simulator.

### SAFETY REQUIREMENTS

#### ATTENTION:

Read this document carefully before starting to use the unit. Keep the instructions for future reference.

Do not open the device, touching any internal components can cause electric shock. 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 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!

The PTC simulator must be used with a PTC Tecsystem product.

Before using it, make sure the power cable is not damaged, knotted or pinched. Do not tamper the connection 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 unit, disconnect it immediately and contact technical service.

### CLEANING

Disconnect the power cable before cleaning the 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 unit. If this happens, disconnect the 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 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 unit. For any fault, always use qualified personnel. The opening of the 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.

## TECHNICAL SPECIFICATIONS

### PTC SIMULATOR

#### ELECTRICAL FEATURES

3 PTC Output lines FAN-L1-L2

Connection with 4 poles terminal pitch 5 double for T119 DIN or T119 unit

Connection cable length 80cm

#### MECHANICAL FEATURES

Dimensions: 106x90mm - h.83mm

NORYL UL 94V0 self-extinguishing housing

Ambient operating temperature from -20°C to +60°C

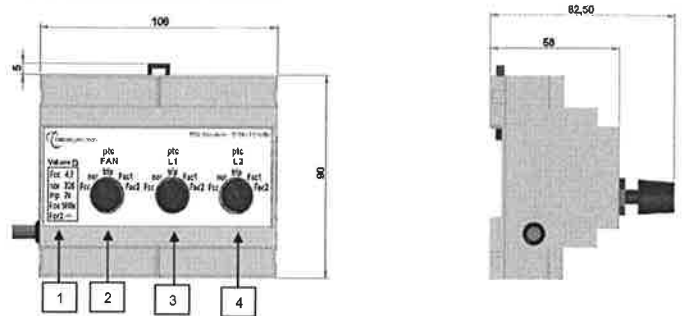
Humidity 90% no-condensing

## FITTING THE DEVICE

The PTCSIMULATOR 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).

### Dimensions and operation of the device:



1- Indication resistive value and simulation condition:

2- Simulation selection condition line PTC FAN.

3- Simulation selection condition PTC line L1.

4- Simulation selection condition line L2 PTC.

FCC sensor short 4.7 Ω  
NOR operation regular 220Ω  
TRIP alarm threshold 2KΩ  
FOC sensor interrupted 500KΩ  
FOC2 sensor disconnected

### CONNECTIONS

Connect the simulator, using the appropriate plug, at the PTC input of the unit to be tested (T119 DIN or T119).



NOTE: Always check the plug in relation to the selection model of the device connected T119 DIN or T119.

### RULES FOR WARRANTY

The Product purchased is covered by the manufacturer's or seller's warranty at the terms and conditions set forth in the "Tecsystem s.r.l.'s General Conditions of Sale", available at [www.tecsystem.it](http://www.tecsystem.it) and / or in the purchase agreement.

The warranty is considered valid only when the product is damaged by causes attributable to TECSYSTEM s.r.l, such as manufacturing or components defects.

The warranty is invalid if the Product proves to have been tampered with / modified, incorrectly connected, because of voltages outside the limits, non-compliance with the assembly and use technical data, as described in this instruction manual.

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### EQUIPMENT DISPOSAL

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