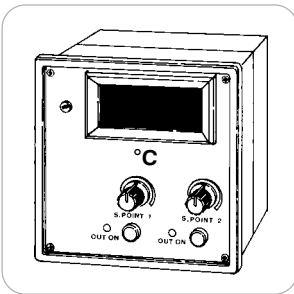




This manual contains important safety information about installation and use of this equipment. Ignoring this information could result in injuries or damages.



It is strictly forbidden to use this equipment with radioactive chemicals!



“JTEMP” CONTROLLER OPERATING MANUAL 24VAC

Read carefully!



ENGLISH Version

R1-02-03



“JTEMP” series instruments comply with the following European regulations:

EN60335-1 : 1995, EN55014, EN50081-1/2, EN50082-1/2, EN6055-2, EN60555,3

Based on directive CEE 73/23 c 93/68 (DBT Low voltage directive) and directive 89/336/CEE (EMC Electromagnetic Compatibility)



GENERAL SAFETY GUIDELINES

Danger! In emergencies the instrument should be switched off immediately! Disconnect the power cable from the power supply!

When using instrument with aggressive chemicals observe the regulations concerning the transport and storage of aggressive fluids!

When installing outside European Community, always observe national regulations!

Manufacturer is not liable for any unauthorized use or misuse of this product that can cause injury or damage to persons or materials!

Caution! Instrument must be accessible at all times for both operating and servicing. Access must not be obstructed in any way!

Feeder should be interlocked with a no-flow protection device.

Instrument and accessories must be serviced and repaired by qualified and authorised personnel only!

Always read chemical safety datasheet!

Always wear protective clothing when handling hazardous or unknown chemicals!

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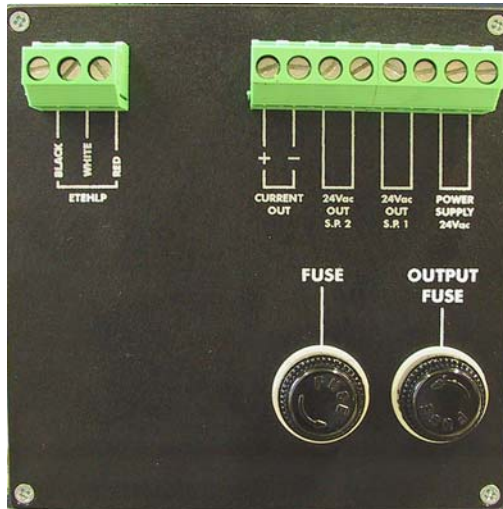
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GENERAL DESCRIPTION

The JTEMP instrument measures and control the temperature in control process industry. It provides two ON-OFF set point and a current signal of between 0÷20 mA, proportional to the value read on display to connect a chart recorder or a remote control. A 7 segments red display facilitates reading in high luminosity conditions. The instrument is housed into an IP50 "ABS" plastic case and designed for panel installation. Max overall dimensions are 96x96x150 mm. The instrument is fixed with 2 brackets on the sides.

ELECTRICAL WIRINGS

Electrical wirings are made on the instrument through the green terminal block in the rear panel shown in the following figure :



“ETEHLP” high linearity temperature probe

“Current Out”* 0÷20mA current output proportional to the instrument reading. (Different output ranges available)

“24 Vac Out S.P.2” SetPoint 2 24Vac output (Max 5A resistive)

“24 Vac Out S.P.1” SetPoint 1 24Vac output (Max 5A resistive)

“Power Supply 24VAC” power supply

“FUZE” instrument protection fuse (500mA T 5x20)

“OUTPUT FUZE” SetPoint “S.P.1” and “S.P.2” protection fuse (1AT 5x20 standard, Max 3.15A T 5x20)

INSTALLING

For the instrument regulation do as follow:

- fix the instrument in a proper support using the brackets
- put the temperature probe in the plant to control

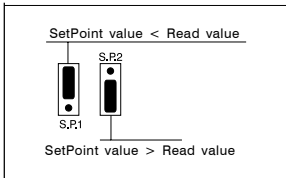
TEMPERATURE PROBE CALIBRATION

“ETEHLP” temperature probe is already calibrated. It is however possible to adjust the calibration regulating the trimmer on the high left frontal panel with a screwdriver.

SET-POINT ADJUSTMENT

Pressing the SET-POINT 1 or 2 button, display will show the previous stored value. To change it keep SET-POINT button pressed and rotate “SetPoint” knob 1 or 2 till the display shows the required value. “SetPoint 1” and SetPoint2” yellow LEDs are on when the correspondent 24Vac output are enabled. A free of voltage contact (N.O.) is available upon demand on “24Vac Out S.P.1” and “24Vac Out S.P.2”. The led is active when the free chlorine reading is lower or higher than the correspondent “Set Point” 1 or 2 value. To set the instrument on a lower or higher value than the read one, it is necessary to configure the internal jumper.

Remove the mask and the four screws on the front panel, remove the rear section of the instrument and slide toward the PCB. Locate the jumpers circled and follows the scheme showed below:



CURRENT OUTPUT

On terminals "Current Out", there is a proportional current signal to the displayed values ($0 \div 20mA$ or $4 \div 20mA$ on request):

$$0 \div 100 \text{ } ^\circ\text{C} = 0 \div 20mA ; 4 \div 20mA$$

Max resistance load : 330 Ohm

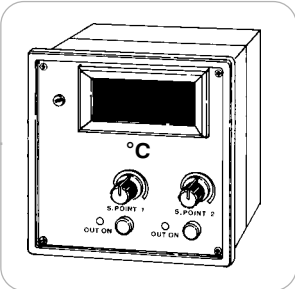
Output current range is printed on the instrument label.

Output current signal without galvanic insulation, galvanic insulation is available on demand.

ACCESSORIES

- N. 2 Mounting Brackets
- N. 1 5x20 1A (T) Fuse
- N. 1 5x20 500mA (T) Fuse
- N. 1 Instruction Manual

Technical features and drawings are subject to changes and modifications without any advice.



When dismantling an instrument please separate material types and send them according to local recycling disposal requirements. We appreciate your efforts in supporting your local Recycle Environmental Program. Working together we'll form an active union to assure the world's invaluable resources are conserved.