OVERVIEW

The TC-3500 temperature controller series simplifies your temperature control requirements.

This controller reduces system complexity and setup cost. The TC-3500 is a high performance PID temperature controller in space-saving, panel-mount size. RS485 with MODBUS-RTU (JBUS) protocol and IP 65 mounted in panel with gasket suitable for a wide range of environments.

For use with reverse polarity AHP-300FFHC, AHP-300XEHC, AHP-300XHC, AHP-150FFHC, AHP-150XEHC.

SPECIFICATIONS

Mechanical Data:
• Housing Self-extinguishing plastic, UL 94 V0
• Dimensions 35x78 mm - depth 75.5 mm
• Weight 130 g approx
• Connections 2.5 mm2 screw terminal block
• Mounting flush in panel in 29x71 mm hole
• Front panel protection IP 65 mounted in panel with gasket

Electrical Data:
• Power supply 12…24 VDC +/- 10
• Power consumption 4 VA approx.

Input Sensor:
• PTC Thermistor (included)

Functional Data:
• Control PID double action
• PID functions AUTO TUNING FAST, SELF TUNING, FUZZY OVERSHOOT CONTROL
• Multi Set Point Up to 4 programmable Set Points
• Overall accuracy +/-0.5% full scale (TC S : +/- 1% fs)
• Unit of measurement °C / °F, programmable
• Max. cold junction compensation drift 0.1°C/°C with operating temperature 0…50°C after warm-up time of 20 min.
• Sampling rate 8 sample per second
• Serial communication RS485 with MODBUS-RTU (JBUS) protocol
• Communication rate 1200…38400 baud, programmable
• Display 4 red digit h=12 mm
• Parameters access Protected by password
• Operating temperature 0…50°C
• Operating humidity 30…95 RH% without condensation
## PART NUMBER AND ORDERING

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>PART NUMBER</th>
<th>SWITCHING VOLTAGE</th>
<th>SWITCHING CURRENT</th>
<th>COMMUNICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-3500</td>
<td>35-44S-30-000</td>
<td>12/24</td>
<td>7</td>
<td>None</td>
</tr>
<tr>
<td>TC-3500</td>
<td>35-44S-32-000</td>
<td>12/24</td>
<td>7</td>
<td>RS-485</td>
</tr>
</tbody>
</table>

## DIMENSIONS AND CUTOUT

Dimensions: Inches [Millimeters]

- Panel cut out:
  - Width: 3.10 [78]
  - Height: 2.52 [64]
  - Depth: 1.10 [28]
  - Max. depth: 0.75 [19]

- Front:
  - Width: 1.34 [34]
  - Height: 1.38 [35]

- Side:
  - Width: 0.22 [5.5]
  - Height: 0.45 [11.5]

- Brackets:
  - Width: 2.79 [71]
  - Height: 1.54 [39]

- Min. depth: 0.47 [12]

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