Multiplexer
Model CTS3000

Applications

- Expansion of channels for the measuring instrument
- Extended measured value registration
- Temperature mapping

Special features

- No loss of accuracy for the measuring instrument
- No loss of channels at the measuring instrument
- Up to four multiplexers can be stacked
- No parasitic thermal voltages due to high-quality materials
- By using of solid-state relays no wear and no clacking

Description

The model CTS3000 multiplexer is a component of the modular system of our precision thermometer series. It is used to switch between several thermometers in order to make the measured value registration easier or even to automate it. This saves time and with that, also money.

Our multiplexer can only be used with one of our model CTR precision thermometers. These feed and communicate completely autonomously with the multiplexer.

The multiplexer is operated reliably by solid-state relays, so that high-precision switching from channel to channel is possible. Due to the use of high-quality materials, no loss of accuracy is to be expected, either.

All settings for the thermometer on a specific channel, such as the measuring range, characteristic curves or measuring current, are made directly on the measuring instrument. In addition, these settings can be comfortably managed from a PC and also via the interface of the measuring instrument.
## Specifications
### Model CTS3000

### Multiplexer
<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of channels</td>
<td>10</td>
</tr>
<tr>
<td>Channel indication</td>
<td>LED</td>
</tr>
<tr>
<td>Probe connection</td>
<td>4 mm banana jacks and TC mini connectors</td>
</tr>
<tr>
<td>Case type</td>
<td>Desktop case, Built-in case for 19&quot; rack</td>
</tr>
</tbody>
</table>

### Connection to measuring instrument
- Max. number per measuring instrument: 4

### Selectable probe types
- Pt100 – 3-wire
- Pt100 – 4-wire
- Thermistors
- Thermocouples

### Measuring instrument assignment
- CTR3000

### Permissible ambient conditions
- Operating temperature: 0 ... 50 °C [32 ... 122 °F]
- Relative humidity: 0 ... 60 % r. h. (non-condensing)
- Storage temperature: -20 ... +50 °C [-4 ... +122 °F]

### Case
- Dimensions (W x H x D): see technical drawings
- Weight: 4 kg [8.8 lbs]

## Approvals

<table>
<thead>
<tr>
<th>Logo</th>
<th>Description</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>☀</td>
<td>EU declaration of conformity</td>
<td>European Union</td>
</tr>
<tr>
<td>☀</td>
<td>EMC directive</td>
<td></td>
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<tr>
<td>☀</td>
<td>RoHS directive</td>
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</tbody>
</table>

Approvals and certificates, see website
Dimensions in mm (in)

**Desktop case**

**Built-in case for 19” rack**
Accessories

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature probe model CTP5000</td>
<td>CTP5000</td>
</tr>
<tr>
<td>Immersion probe</td>
<td></td>
</tr>
<tr>
<td>Thermocouple model CTP9000</td>
<td>CTP9000</td>
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<tr>
<td>Immersion probe type S</td>
<td></td>
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<tr>
<td>With or without cold junction</td>
<td></td>
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</tbody>
</table>

Scope of delivery

- Multiplexer model CTS3000
- Connection cable to measuring instrument

Option

- Desktop case
- 19" rack