### Specifications

<table>
<thead>
<tr>
<th>TZN4M</th>
<th>TZN4L</th>
<th>TZN4H</th>
<th>TZN4W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption</td>
<td>4.5W</td>
<td>4.5W</td>
<td>4.5W</td>
</tr>
<tr>
<td>Display</td>
<td>0.8&quot; 2-line LCD</td>
<td>0.8&quot; 2-line LCD</td>
<td>0.8&quot; 2-line LCD</td>
</tr>
<tr>
<td>Current</td>
<td>Max. 1.5A</td>
<td>Max. 1.5A</td>
<td>Max. 1.5A</td>
</tr>
<tr>
<td>DC4-20mA</td>
<td>-3mA to 15mA</td>
<td>-3mA to 15mA</td>
<td>-3mA to 15mA</td>
</tr>
<tr>
<td>Insulation resistance (250VAC)</td>
<td>Min. 1GΩ</td>
<td>Min. 1GΩ</td>
<td>Min. 1GΩ</td>
</tr>
<tr>
<td>Mechanical:</td>
<td>100,000 operations</td>
<td>100,000 operations</td>
<td>100,000 operations</td>
</tr>
<tr>
<td>Size</td>
<td>80×59×22mm</td>
<td>80×59×22mm</td>
<td>80×59×22mm</td>
</tr>
<tr>
<td>DIN cut-out</td>
<td>96×96mm</td>
<td>96×96mm</td>
<td>96×96mm</td>
</tr>
<tr>
<td>Environment</td>
<td>Min. 0°C to 55°C</td>
<td>Min. 0°C to 55°C</td>
<td>Min. 0°C to 55°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>Max. 90% RH noncondensing</td>
<td>Max. 90% RH noncondensing</td>
<td>Max. 90% RH noncondensing</td>
</tr>
</tbody>
</table>

### Dimensions

**TZ4NL**

**TZ4H**

**TZ4M**

**TZ4W**

### Input Type and Range

<table>
<thead>
<tr>
<th>Type</th>
<th>PV (VDC)</th>
<th>Current (mA)</th>
<th>PV (VDC)</th>
<th>Current (mA)</th>
<th>PV (VDC)</th>
<th>Current (mA)</th>
<th>PV (VDC)</th>
<th>Current (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog</td>
<td>0-5V</td>
<td>0mA to 20mA</td>
<td>0-10V</td>
<td>0mA to 20mA</td>
<td>4-20mA</td>
<td>0mA to 20mA</td>
<td>0-5V</td>
<td>0mA to 20mA</td>
</tr>
<tr>
<td>Digital</td>
<td>0-5V</td>
<td>0mA to 20mA</td>
<td>0-10V</td>
<td>0mA to 20mA</td>
<td>4-20mA</td>
<td>0mA to 20mA</td>
<td>0-5V</td>
<td>0mA to 20mA</td>
</tr>
</tbody>
</table>

### Connections

**TZ4NL**

**TZ4H**

**TZ4M**

**TZ4W**

### Configuring Input Type

1. Connect the input signal to the corresponding input terminal.
2. Set the input type using the front panel menu.
3. Verify the input range by checking the display.

### Safety Considerations

- **Warning**: Failure to follow these instructions may result in injury or death.
- **Caution**: Failure to follow these instructions may result in personal injury or property damage.
- **Caution**: When connecting the power input and relay output, use AWG 22-28 (0.4mm²) cable or over and tighten the terminal screws with a tightening torque of 0.2N·m.

### Ordering Information

<table>
<thead>
<tr>
<th>TZN4</th>
<th>TZN4H</th>
<th>TZN4W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option output</td>
<td>Option output</td>
<td>Option output</td>
</tr>
<tr>
<td>Power supply</td>
<td>30VDC ±3V</td>
<td>30VDC ±3V</td>
</tr>
<tr>
<td>Digital</td>
<td>0-5V</td>
<td>0-5V</td>
</tr>
</tbody>
</table>

### Notes

- The unit cannot be configured with any resistance or isolation from the above ordering information. Please refer to the catalog or contact your local distributor for more details.
- The above specifications are subject to change and some model may be discontinued without notice.
- Be sure to follow all safety considerations written in the instruction manual and the technical descriptions (catalog, homepage).
### Functions

#### 1. SV temperatures

- **SV Temperature**
  - SV temperature is the target set point. It is used to control the system and achieve the desired operating condition.
  - The SV temperature setting range is from -49.0°C to 50.0°C.
  - The default SV temperature setting value is 0.0°C.

#### 2. Ramp

- **Ramp**
  - The ramp function is used to control the temperature change rate during the process. It can be set using the ramp function.
  - The ramp function setting range is from 0.0°C to 10.0°C.
  - The default ramp setting value is 0.0°C.

#### 3. Alarm (SV)

- **Alarm (SV)***
  - Alarm (SV) is used to monitor the temperature value and trigger an alarm when the temperature exceeds the set limit.
  - The alarm (SV) limit setting range is from 0.0°C to 50.0°C.
  - The default alarm (SV) limit setting value is 0.0°C.

### Troubleshooting

- **Error Display**
  - The error display shows the current status of the unit and helps diagnose any issues that may occur.
  - The error display settings allow for customization of the error messages.
  - The error display setting range is from 0.0°C to 10.0°C.
  - The default error display setting value is 0.0°C.

### Comprehensive Device Management Program [DAQMaster]

- DAQMaster is a software tool used to manage and monitor the performance of the unit.
  - DAQMaster allows for real-time monitoring and data collection.
  - DAQMaster also provides tools for troubleshooting and maintenance.
  - The DAQMaster setting range is from 0.0°C to 10.0°C.
  - The default DAQMaster setting value is 0.0°C.

### RS485 Communication

- RS485 communication is used for data transmission between the unit and other devices.
  - RS485 communication settings allow for customization of the communication parameters.
  - RS485 communication setting range is from 0.0°C to 10.0°C.
  - The default RS485 communication setting value is 0.0°C.

### Major Products

- The major products of the unit include:
  - Power Supplies
  - Switching Mode Power Supplies
  - Hard disk
  - Graphic/Logic Panels
  - Area Sensors
  - Rotary Encoders
  - DAQMaster
  - Graphic/Logic Panels
  - Area Sensors
  - Rotary Encoders
  - DAQMaster
  - Graphic/Logic Panels
  - Area Sensors
  - Rotary Encoders
  - DAQMaster

**Note:** The unit description contains detailed information about the unit's features, specifications, and troubleshooting tips. Please refer to the manual or contact the manufacturer for more information.