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| **captemp®** Monitoring System | **Technical specifications** |
| |  TH3 RS485 CONVERTER |



**TH3 RS485 Converter** is an intelligent controller and modular system that can be provided in several versions

## Technical specifications

| Basic parameters | | | | | |
|---|---|---|---|---|---|
| **+ Models** | **TH3-Temp OW** | **TH3-HTemp OW** | **TH3-Temp PT100** | **TH3-Analog** | **TH3-Leak** |
| **+ Range of measured** | -55 to +125°C | -40 to +85°C<br>0 to 100% RH<br>**With filter for condensing environment** | -200 to 450°C | 0-10V or 4-20 mA | 1-1500<br>**sensitive range** |
| **+ Resolution** | 12 bits (0,0625°C) | 16 bits | 15 bits (0.03125°C) | 10 bits | NA |
| **+ Accuracy** | +/- 0,5 °C in range from -10°C to +55°C | +/- 0.3 °C (-40°C to +125°C)<br>+/- 2 RH% ( 0% to 100%) | +/- 0.3 °C | Voltage –  +/-20 mV<br>Current –  +/-50µA | NA |
| **+ Measuring speed** | Respond to a request within 35ms at maximum. Internal measuring's updated every 2 seconds | | | | |
| **+ Measuring element** | Maxim Dallas DS18B20<br>Silicone Cable<br>Inox probe (IP68) | Sensirion SHT31<br>Silicone cable<br>Probe with filter | Maxim Dallas  MAX31865<br>PT100/A Silicone<br>Cable Inox probe(IP68) | Maxim Dallas DS2438<br>Silicone cable<br>Terminal block | Leak Detection Cable<br>Type RWM (4-wires) |
| **+ Digital Input type** | | 2X dry contact | | | |
| **+ Outside size  AxBxC** | | 90 x 25 x 50  m | | | |
| **Communication** | | | | | |
| **+ Communication parameters** | 9600 8N1 | | | | |
| **+ Communication line** | RS-485 with power to 1'200 meters | | | | |
| **+ Status indication** | **Red** indicator:<br>- Blink 3 times = during startup (everything OK)<br>- Blink every 2 seconds after startup (everything OK)<br>- Blink faster  = wrong address<br>- Blink slowly = No sensor found (ERROR) | | | | |
| **+ Function modes** | Question-Answer  / Client mode to configuration / Can be configured remotely without removing from the BUS | | | | |
| **- Question-Answer** | Temperature is reported upon request according to protocol<br>Termination character for all communications is **only** carry return | | | | |
| **Others** | | | | | |
| **+ Power supply** | +9V to +48V DC, reverse polarity protection | | | | |
| **+ Power consumption** | 3W | | | | |
| **+ RS-485 line termination** | Internal resistor 120Ω activated by external switch | | | | |

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