# RMS ACCESSORIES

## OVERVIEW TEMPERATURE PROBES

The T10 temperature sensors are NTC (Negative Temperature Coefficient) thermistors, meaning that the resistance of the NTC decreases with increasing temperature. The T10 temperature sensors are compatible with the RMS-MLOG-T10-868/915 data loggers. The data logger temperature range is limited from -35...80°C.
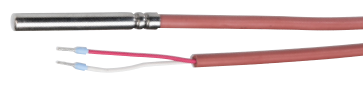
The RMS temperature portfolio will cover a various array of applications, from the coldest such as liquid nitrogen tanks and cryogenic freezers to freezers, refrigerators and cold rooms to hotter ones such as water baths, incubators, ovens and autoclaves. Certain probes are also designed for specific applications for monitoring legionella within water pipes and monitoring room temperature.

It is crucial when setting up your RMS-MLOG-T10-868/915 with the T10 temperature probe to configure the logger accordingly with the software as the characteristic curve of each NTC is stored within the firmware. Please see for each probe below.

This list is not extensive and other probes, diameters and cable lengths are available on demand.

For accuracy information please see the RMS-MLOG data sheet.



| T10-0001 | T10-0002 | T10-0003 |
|---|---|---|
| • Applications: liquid nitrogen, cyrogenics...<br>• Application range: -196...-90°C<br>• Cable length: 2m<br>• Probe diameter: 6mm<br>• Probe length: 50mm<br>• IP65<br>• Select NTC T10-0001 within RMS | • Applications: Dry ice, freezers...<br>• Application range: -80...150°C<br>• Cable length: 2m<br>• Probe diameter: 6mm<br>• Probe length: 50mm<br>• IP65<br>• Select NTC T10-0002/0006 within RMS | • Applications: freezers, fridges, cold rooms, water baths, incubators, ovens...<br>• Application range: -50...120°C<br>• Cable length: 2m<br>• Probe diameter: 6mm<br>• Probe length: 50mm<br>• IP65<br>• Select NTC T10-0003/4 within RMS |
| T10-0004 | T10-0005 | T10-0006 |
| • Applications: pipe monitoring (legionella)<br>• Application range: -50...120°C<br>• Cable length: 2m<br>• Probe: duct wrap<br>• Probe length: 50mm<br>• IP65<br>• Select NTC T10-0003/4 within RMS | • Applications: Dry ice, freezers...<br>• Application range: -90...0°C<br>• Cable length: 4m<br>• Probe diameter: 6mm<br>• Probe length: 50mm<br>• IP68<br>• Select NTC T10-0005 within RMS | • Applications: freezers, fridges, cold rooms, water baths, incubators, ovens...<br>• Application range: -80...150°C<br>• Cable length: 4m<br>• Probe diameter: 6mm<br>• Probe length: 50mm<br>• IP65<br>• Select NTC T10-0002/0006 within RMS |

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MEASUREMENT SOLUTIONS

# OVERVIEW ACCESSORIES

**E2-xxA extension cable**
- Applications: Improved probe access for calibration purposes
- Available in 01, 02 and 05m (replace xx with the desired length)
- Compatibility: RMS-LOG-L/868/915 and HCD, PCD and CCD

**E2-xxXX extension cable with open ends**
- Applications: Various
- Available in 01, 02 and 05m (replace xx with the desired length)
- Compatibility: RMS-LOG-L/868/915

**21.99.0302 / 305 / 310 Ethernet patch cable**
- Applications: Ethernet wiring
- 2 / 5 / 10 m
- White
- Compatibility: RMS-LOG-L, RMS-GW-868, RMS-DI/DO-L-R

**AC1321 mounting kit**
- Applications: RMS wall module mounting
- Mounting cone (to bring the Ethernet cable through the joint)
- Allen key
- Compatibility: RMS-LOG-L & RMS-GW-868

**AC1322 holder**
- Applications: RMS probe wall mounting module
- Compatibility: PCD and CCD probes

**RMS-AC-0001 holder for RMS-Monitor-7**
- Holder to attach the RMS-Monitor-7 to a wall
- Compatibility: RMS-Monitor-7

**WC-0001 Webcam**
- Applications: Monitoring applications together with a snap shot, PDF report together with a snap shot
- Application range: 0…40°C
- Resolution: 640 x 480
- Connectivity: RJ45
- Power supply: 5V

**RMS-DONGLE-868**
- Applications: configures 868 wireless devices with RMS-Config
- Compatibility: All 868 wireless devices

**RMS-BAT batteries**
- Applications: Fail safe power supply
- Model: ER14505M
- Application range: -55°C…80°C
- Compatibility: RMS-LOG-L/868/915, RMS-GW-868/915, RMS-MLOG range & RMS-DI-L-R

**RMS-NPK network planning kit**
- Applications: Planning of a wireless network
- RMS-MLOG and wireless USB dongle to check the wireless communication
- Compatibility: RMS-Config

**21.14.0016 5 port power over Ethernet Switch**
- Applications: Setting up a PoE network
- Add up to 4 RMS LAN devices

**21.14.0018 8 port power over Ethernet Switch**
- Applications: Setting up a PoE network
- Add up to 7 RMS LAN devices

**RMS-PS & RMS-PS-R power supplies**
- RMS-PS: 24VDC, 0.5A, 15W with connector
- RMS-PS-R: 24VDC, 60mA, 15W, Din rail
- Compatibility: RMS-LOG-L/868/915, RMS-GW-868/915, RMS-DO/DI-L-R

**DC-0001 Magnetic door contact**
- Applications: Door open/close monitoring for rooms, fridges, freezers…
- Application range: -20…70°C
- Compatibility: RMS-MDI-868/915 & RMS-DI-L-R

**WB-0001 Leak detector module**
- Applications: Leak monitoring for archives, storage areas…
- Application range: 0…50°C
- Battery powered
- Visual alarm
- Audible alarm
- Compatibility: RMS-MDI-868/915 & RMS-DI-L-R

**AD-0001 Signal beacon**
- Applications: Signal alarms to users via light and sound
- Application range: -20…50°C
- Visual alarm
- Audible alarm
- Compatibility: RMS-DO-L-R

**RMS-PS-CONV**
- Applications: power supply for the RMS-Converter
- Compatibility: RMS-CONVERTER-100

**AC1000 naturally ventilated weather shield**
- Applications: protect your outdoor temperature and relative humidity measurement
- Application range: protection against wind speeds of up to 70m/s and horizontal precipitation
- Compatibility: HCD-S

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# OVERVIEW FILTERS

**Description**

Filter carriers protect the humidity and temperature sensors against mechanical damage. Filters act as a protective barrier against contaminants/pollutants that can influence the sensor. When choosing the correct combination of filter carrier and filter there are many factors to consider. Specific conditions such as high air velocities, pollutants in the air, disinfection and clean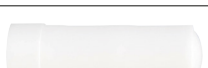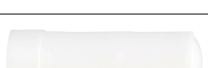ing routines, mechanical impacts, high bioactivity, condensation, airborne chemical contaminants and required response time are some of the many considerations.

| Plastic filter carrier | Metal filter carrier |
|---|---|
| • Maximum temperature 100 °C <br> • Mechanical protection | • Maximum temperature 200 °C <br> • Mechanical protection |

**Overview filters**

| | Teflon filters | Polyethylene filters | Sintered steel filters (stainless steel) | Wire mesh filters (metal) |
|---|---|---|---|---|
| Maximum temperature (consider range of application of filter carrier) | 200 °C | 100 °C | 200 °C | 200 °C |
| Protection against particulates | ✔✔ | ✔✔ | ✔ | ✔ |
| Protection against abrasives in the air | | | ✔✔✔ | ✔ |
| Pore size | 10 μm | 40 μm | 25 μm | 10 μm |
| Max. air velocity [m/s] (continuous load) | 50 | 50 | 70 | 50 |

✔ = low / ✔✔ = medium / ✔✔✔ = high

| Order code | Filter carrier | Filter element | Pore size | Range of application | |
|---|---|---|---|---|---|
| SPA-SS | 1.4301 | No filter, only filter carrier | | -50...100 °C | |
| SPA-SS-PE | | Polyethylene, white | 40-50 μm | | |
| SPA-SS-PTFE | | PTFE, white | 10 μm | | |
| SPA-SS-WM | | Wire mesh 1.4401 | 10 μm | | |
| SPA-SSS | Filter carrier incl. filter | Sintered steel 1.4404 | 25 μm | -100...200 °C | |
| SPA-WM | No filter carrier, only filter | Wire mesh 1.4401 | 10 μm | | |

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| Order code | Filter carrier | Filter element | Pore size | Range of application | |
|---|---|---|---|---|---|
| SPA-PCB | Polycarbonate, black | No filter, only filter carrier | | -50...100 °C | |
| SPA-PCB-PE | | Polyethylene, white | 40-50 µm | | |
| SPA-PCB-PTFE | | PTFE, white | 10 µm | | |
| SPA-PCB-WM | | Wire mesh 1.4401 | 10 µm | | |
| SPA-PCW | Polycarbonate, white | | | -50...100 °C | |
| SPA-PCW-PE | | Polyethylene, white | 40-50 µm | | |
| SPA-PCW-PTFE | | PTFE, white | 10 µm | | |
| SPA-PCW-WM | | Wire mesh 1.4401 | 10 µm | | |
| SPA-PE | No filter carrier, only filter | Polyethylene, white | 40-50 µm | | |
| SPA-PTFE | No filter carrier, only filter | PTFE, white | 10 µm | -100...200 °C | |

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