

# RMS-TCD-S-001



## Benefits

- Measures temperature
- Outstanding accuracy, repeatability and long-term stability
- Advanced probe housing and construction
- Compatible with RMS loggers and RMS software
- Low power consumption
- Digital communication
- Hot swap possibility, ensuring little to no downtime
- Automatic serial number replacement documented within the RMS audit trail

## Applications

- Pharmaceutical monitoring
- Food monitoring
- Museum monitoring
- Monitor conform the GxP and FDA 21 CFR Part 11



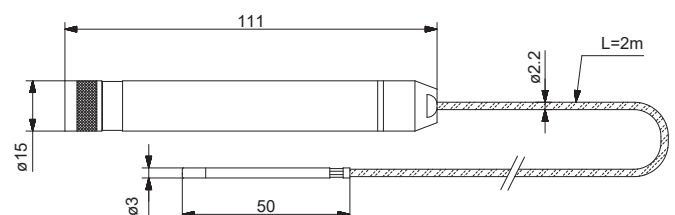
## Technical Data

<b>Order code</b>	RMS-TCD-S-001
<b>Measurement range</b>	-200...200 °C*
<b>Accuracy</b>	±0.25 °C at -50...85 °C
<b>Long term stability</b>	±0.5 °C/year
<b>T63</b>	90 s
<b>Electronics details</b>	
<b>Temperature range</b>	-40...85 °C
<b>Relative humidity range</b>	0...100 %rh
<b>Housing details</b>	
<b>Material</b>	Polycarbonate
<b>Housing potting</b>	Yes
<b>Diameter</b>	Ø15 mm
<b>Length</b>	110 mm
<b>IP Rating</b>	IP65
<b>Connector</b>	Standard Rotronic 7-pin connector
<b>Sensor details</b>	
<b>Temperature range</b>	-200...200°C
<b>Temperature sensor</b>	4 wire PT100 1/3 DIN (DIN EN 60751)
<b>Material</b>	Stainless steel - austenitic - 1.4571 (316Ti) bar
<b>Sensor potting</b>	Yes
<b>Diameter</b>	Ø3 mm
<b>Length</b>	50 mm
<b>IP Rating</b>	IP68

<b>Cable details</b>	
<b>Temperature range</b>	-190...200°C
<b>Material</b>	Perfluoroalkoxy alkanes (PFA)
<b>Diameter</b>	Ø 2.2 mm
<b>Length</b>	2 m
<b>Technical details</b>	
<b>Battery lifetime</b>	RMS-LOG-868/915/L: @60 s 240 d RMS-LOG-L-D: @60s 18 d
<b>Communication</b>	MODBUS RTU
<b>Output signal</b>	UART
<b>Power supply</b>	3.3...5 V
<b>Current consumption</b>	~3.8 mA
<b>Adjustment option 1**</b>	2 point user adjustment possible
<b>Adjustment option 2**</b>	A, B and C coefficients
<b>Accessories</b>	
<b>Hardware</b>	AC3001, RMS-LOG-L, RMS-LOG-868/915, RMS-LOG-L-D
<b>Software</b>	RMS-CONFIG; Rotronic Monitoring System

\* Sensor only

\*\* It is possible to carry out a 1 or 2 point adjustment to improve the measurement accuracy.



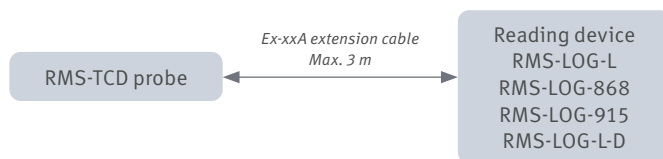
## Compatible Products

Order code	Filter carrier
RMS-TD-0001	Temperature buffer
AC3001	USB/E2 cable to connect to a laptop/PC with RMS-CONFIG
RMS-LOG-L/868/915/RMS-LOG-L-D	Wall datalogger for digital probes

## Possible Extension Cables

It is possible to extend the distance between the probe and the data logger with an extension cable.

- Passive connections are possible up to 5 m (see table below for possible options).



Order code	Cable length	Color
E2-01A	1 m	Black
E2-02A	2 m	
E3-01A	1 m	White
E3-02A	2 m	

## Temperature window

