

RMS-TCD-S-001



Benefits

- Measures temperature
- Outstanding accuracy, repeatability and long-term stability
- Advanced probe housing and construction
- Compatible with RMS data 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



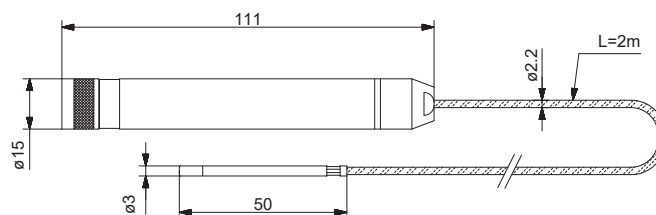
Technical Data

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

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

* Sensor only

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



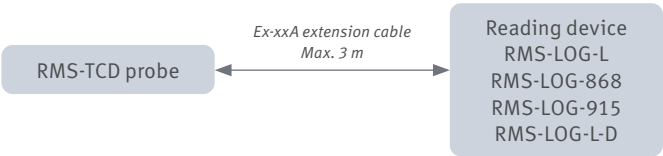
Compatible Products

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

