

## DATASHEET

# tempmate®-M2

The multi-use datalogger for temperature & rel. humidity





## MAIN TECHNICAL SPECIFICATIONS tempmate.®-M2 T

Usage Type	Multi-Use
Monitored Information	Temperature
Dimension [mm]	100 mm x 53 mm x 12 mm (L x W x H)
Weight [g]	54 g
Casing	ABS
Battery	CR2450 / replaceable by customer
Temperature Range	-30 °C to +70 °C
Temperature Accuracy	±0,3 °C (-20 °C to +40 °C); ±0.5 °C (other range)
Temperature Resolution	0.1 °C
T90	5 min (internal sensor) / 30 s (external sensor)
Indication / Display	LED indication & Multifunctional LCD
Protection Class	IP 65
Battery Life	Minimum 24 months*
Connection Interface	USB 2.0, A-Type
Memory Capacity (measurements)	60,000 readings
Run Time	Up to 6 months (depending on temperature range & log interval)
Logging Interval	Default: 10 min.; Programmable: 10 sec. - 11h 59min.
Startup Mode	Button or start through tempbase 2 Software
Stop Mode	Button or stop through tempbase 2 Software
Alarm Configuration	Up to 6 alarm limits customizable, single or cumulative via tempbase 2 Software

## OTHER SPECIFICATIONS

Temporary PDF	The PDF Report is available at anytime without stopping the Logger
Conformity	EN 12830, CE, RoHS, RTC-DO-160, MSDS
Validation Certificate	6 points (hardcopy) & PDF in memory
Reprogrammable	Yes, with internal HTML tool or with free tempbase 2 Software
Report Generation	Automatic PDF & CSV report
Password Protection	Optional on request
Backup-Log-Feature	Yes
Accessories incl.	Validation Certificate

\* Since environmental influences can affect the lifespan of batteries, we recommend that all our products be stored in the conditions that are optimal for them. In this way, the battery life given at the time of purchase can be guaranteed.  
**Optimal storage conditions: +15°C to +23°C / 45% to 75% rH.**



## MAIN TECHNICAL SPECIFICATIONS tempmate.®-M2 TH

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Monitored Information	Temperature and Humidity
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Weight [g]	54 g
Casing	ABS
Battery	CR2450 / replaceable by customer
Temperature Range	-30 °C to +70 °C
Temperature Accuracy	±0,3 °C (-20 °C to +40 °C); ±0.5 °C (other range)
Temperature Resolution	0.1 °C
T90	5 min (internal sensor) / 30 s (external sensor)
Humidity Range	0 - 100% RH
Humidity Accuracy	±3% RH (20 to 80% RH); ±5% (others, at 25 °C)
Humidity Resolution	0.1% RH
Display	LED indication & Multifunctional LCD
Protection Class	IP 52
Battery Life	Minimum 24 months*
Connection Interface	USB 2.0, A-Type
Memory Capacity (measurements)	60,000 readings
Run Time	Up to 6 months (depending on temperature range & log interval)
Logging Interval	Default: 10 min.; Programmable: 10 sec. - 11h 59min.
Startup Mode	Button or start through tempbase 2 Software
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## Main Technical Specifications tempmate.®-M2 Accessory

### tempmate.®-M2 External T-Sensor (M2S100)

Sensor	HQ Digital Temperature Sensor
Temperature Range	-40°C to +90°C
Temperature Accuracy	0.3°C (at -20 ° C to + 40 ° C, other 0.5°C)
Temperature Resolution	0.1°C
Sensor Tip	Stainless Steel (30 x 5 mm)
Sensor Connection	M2-USB Connection
Cable length	1.2 m
Cable Diameter	3 mm
Cable Material	PVC

### tempmate.®-M2 External T-Sensor (M2S300)


Temperature Sensor	PT100 Sensor
Temperature Range	-80°C to +200°C
Temperature Accuracy	±1°C
Temperature Resolution	0,1°C
Sensor Tip	Stainless Steel (30 x 5 mm)
Sensor Connection	M2-USB Connection
Cable length	1.2 m
Cable Diameter	3 mm
Cable Material	PTFE

### tempmate.®-M2 External T/rH-Sensor (M2S200)

Sensor	HQ Digital Temperature/Humidity Sensor
Temperature Range	-40°C to +90°C
Temperature Accuracy	0.3°C (at -20 ° C to + 40 ° C, other 0.5°C)
Temperature Resolution	0,1°C
Humidity Range	0 - 100 %rH
Humidity Accuracy	±3%rH (10% to 70%), 5% others (at +25°C)
Humidity Resolution	0.1 %rH
Sensor Tip	Stainless Steel (30 x 5 mm)
Sensor Connection	M2-USB Connection
Cable length	1.2 m
Cable Diameter	3 mm
Cable Material	PVC

### tempmate.®-M2 External T-Sensor (M2S400)

Sensor	PT100 Sensor Type B
Temperature Range	-196 °C to +200 °C
Temperature Accuracy	±0.3 °C (-20 °C to +40 °C); ±0.5 °C (-50 °C to +85 °C); ±1.0 °C (-80 °C to +150 °C); ±2.0 °C (-196 °C to +200 °C)
Temperature Resolution	0.1°C
Sensor Tip	Stainless Steel (30 x 5 mm)
Sensor Connection	M2-USB Connection
Cable length	1,2 m (3.0 m Version on request available)
Cable Diameter	3 mm
Cable Material	PTFE



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**PLEASE,** contact us for further questions.