

Comparison tempmate.®-M Series



	tempmate.®-M1	tempmate.®-M2 T	tempmate.®-M2 TH
Picture			
Temperature Sensor	NTC internal and external optional	HQ Digital Temperature sensor (internal and external optional)	HQ Digital Temperature sensor (internal and external optional)
Temperature Range	−30°C to +70°C (−40°C to +90°C with ext. Sensor)	-30°C to +70°C (−40°C to +90°C with ext. T Sensor) (-80°C to +200°C with ext. PT100 Sensor)	-30°C to +70°C (−40°C to +90°C with ext. T Sensor) (-80°C to +200°C with ext. PT100 Sensor)
Temperature Accuracy	±0.5°C (at −20 ° C to + 40 ° C)	±0.3°C (at −20°C to + 40°C, other 0.5°C)	±0.3°C (at −20°C to + 40°C, other 0.5°C)
Temperature Resolution	0.1 °C	0.1 °C	0.1 °C
Humidity Sensor	n/a	n/a	HQ Digital Temperature/rel. Humidity sensor (internal and external optional)
Humidity Range	n/a	n/a	0%rH to 100%rH
Humidity Accuracy	n/a	n/a	±3%rH (20 to 80%rH), 5% others (at 25°C)
Humidity Resolution	n/a	n/a	0.1%rH
Data Storage	32,000 values	60,000 values	60,000 values
Display	Multifunction LCD	Big Multifunction LCD	Big Multifunction LCD
Start Setting	Manually by pressing button or automatically programmed start time	Manually by pressing button, by software or timed	Manually by pressing button, by software or timed
Recording Time	Up to 6 months	Up to 6 months	Up to 6 months
Interval	10sec. up to 11h 59min. (default 15 min.)	10sec. up to 11h 59min. (default 10 min.)	10sec. up to 11h 59min. (default 10 min.)
Alarm Settings	adjustable up to 5 alarm limits	Up to 6 points customizable	Up to 6 points customizable
Alarm Type	Single alarm or cumulative	Single alarm or cumulative	Single alarm or cumulative
Battery	CR2032 / replaceable by customer	CR2450 / replaceable by customer	CR2450 / replaceable by customer
Dimensions	80mm x 34mm x 14mm (L x W x D)	100 x 53 x 12 mm	100 x 53 x 12 mm
Weight	25g	54g	54g
Protection Class	IP65	IP65	IP65
Connection Interface	USB 2.0, A-Type	USB 2.0, A-Type	USB 2.0, A-Type
Conformity	EN 12830, CE, RoHS	EN 12830, CE, RoHS	EN 12830, CE, RoHS
Software	tempbase.® -D / free download	PDF or CSV reader or tempbase 2 software / free download	PDF or CSV reader or tempbase 2 software / free download
Interface to PC	integrated USB port	Integrated USB port	Integrated USB port
Reprogrammable	Yes, with tempbase software	Yes, with internal HTML tool* or optional tempbase 2 Software	Yes, with internal HTML tool* or optional
Automatic Reporting	PDF	PDF & CSV	PDF & CSV
ACCESSORY			
Temperature Sensor	External NTC Sensor (−40°C to +90°C)	External T-Sensor (−40°C to +90°C)	External T-Sensor (−40°C to +90°C)
Temperature/Humidity Sensor	n/a	External T/rH-Sensor (−40°C to +90°C) (0 - 100 %rH)	External T/rH-Sensor (−40°C to +90°C) (0 - 100 %rH)
Extreme Temperature Sensor	n/a	PT100 Sensor (-80°C to +200°C)	PT100 Sensor (-80°C to +200°C)

*coming soon