

USB-501

Specifications



**MEASUREMENT
COMPUTING™**

Revision 1.3, October, 2009
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Specifications

All specifications are subject to change without notice.

Typical for 25 °C unless otherwise specified.

Specifications in *italic text* are guaranteed by design.

Temperature

Table 1. Temperature specifications

Parameter	Specification
Measurement range	-35 °C (-31 °F) minimum, 80 °C (176 °F) maximum
Resolution	0.5 °C (1 °F) typical
Accuracy (overall error)	±1 °C (±2 °F) typical

Sampling

Table 2. Sampling specifications

Parameter	Specification
Sampling intervals	10 s, 30 s, 1 min, 5 min, 15 min, 30 min, 1 h, 2 h, 6 h, 12 h
Max temperature samples	16,382
Units	°C or °F

Alarms

Table 3. Alarm conditions

Parameter	Specification
High temperature alarm range	-35 °C (-31 °F) minimum, 79.5 °C (175 °F) maximum
Low temperature alarm range	-35 °C (-31 °F) minimum, 79.5 °C (175 °F) maximum
Temperature resolution range	0.5 °C (1 °F)

USB specifications

Table 4. USB specifications

USB-device type	USB 2.0 (full-speed)
Device compatibility	USB 1.1, USB 2.0

Power

Table 5. Power specifications

½AA 3.6V Lithium battery life	@ 1minute logging rate	1 year minimum
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Environmental

Table 6. Environmental specifications

Moisture and dust protection	Protective cap installed	IP67
Operating temperature range		-35 °C (-31 °F) minimum, 80 °C (176 °F) maximum

LED flashing modes

Table 7. LED functions

Parameter	Condition	Specification
Green LED	Flashes once every 10 seconds	Currently logging, no alarm
	Flashes twice every 10 seconds	Logging to start at set date and time
Red LED	Flashes once every 10 seconds	Currently logging, low alarm condition *
	Flashes twice every 10 seconds	Currently logging, high alarm condition *
Amber LED	Flashes at the same time as the red or green LED. Alarm condition indicated by red or green LED.	Memory full, no more readings stored
	Flashes once every 60 seconds	Low battery, replace immediately. Alarm condition ignored.
No LEDs flash		Logger stopped or battery depleted

*If both alarms have Hold selected, the LED indicator only applies to the first alarm condition detected.

Mechanical

Table 8. Mechanical specifications

Dimensions	98 mm long x 26 mm wide x 26 mm high (3.86 in. long x 1.02 in. wide x 1.02 in. high)
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