

# Specifications

**USB-501-LT**



**MEASUREMENT  
COMPUTING™**

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# Specifications

Typical for 25 °C unless otherwise specified.

Specifications in *italic text* are guaranteed by design.

## Temperature

Table 1. Temperature specifications

Parameter	Specification
Measurement range	-10 °C (+14 °F) minimum, +50 °C (+122 °F) maximum
Resolution	+1 °C (+2 °F) typical
Accuracy (overall error)	±2.5 °C (±4.5 °F) maximum

## Sampling

Table 2. Sampling specifications

Parameter	Specification
Sampling intervals	15 min, 30 min, 1 h, 2 h
Max temperature samples	4,080
Units	°C or °F

## Alarms

Table 3. Alarm conditions

Parameter	Specification
High temp alarm range	-40 °C (-40 °F) minimum, 89.5 °C (188 °F). maximum
Low temp alarm range	-40 °C (-40 °F) minimum, 89.5 °C (188 °F). maximum
Temp resolution	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

CR1620 lithium button cell life	@30 min logging rate	1 month minimum
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## Environmental

Table 6. Environmental specifications

Operating temperature range	-10 °C (+14 °F) minimum, 50 °C (122 °F) maximum
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## LED flashing modes

Table 7. LED functions

Parameter	Condition	Specification
Green LED	Flashes once	Currently logging, no alarm
Red LED	Flashes once.	Currently logging, low alarm condition *
	Flashes twice.	Currently logging, high alarm condition *
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	68 mm long x 18 mm wide x 9.4 mm high (2.7 in. long x 0.7 in. wide x 0.4 in. high)
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