

USB-503

Specifications



**MEASUREMENT
COMPUTING™**

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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.

Voltage

Table 1. Voltage specifications

Parameter	Specification
Measurement range	0 Volts DC minimum., 30 Volts DC maximum
Resolution	50 millivolts DC
Accuracy (overall error)	±1% 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
Maximum voltage samples	32,510
Units	Volts DC

Alarms

Table 3. Alarm conditions

Parameter	Specification
High voltage alarm range	0-30 Volts DC
High voltage alarm resolution	0.3 Volts
Low voltage alarm range	0-30 Volts DC
Low voltage alarm resolution	0.3 Volts

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 3.6 V lithium battery life	One year, depending on ambient temperature, logging rate, and use of alarm LEDs.
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Environmental

Table 6. Environmental specifications

Operating temperature range	-25°C (-13°F) minimum, 80°C (176°F) maximum
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LED flashing modes

Table 7. LED functions

Parameter	Condition	Specification
Green LED	Flashes once every 10 seconds	Currently logging, no alarm.
	Flashes once every 20 seconds	Low battery, USB-503 continues logging, no alarm.
	Flashes once every 30 seconds	Logging to start at set date and time.
	Flashes twice every 20 seconds	Memory is full, no alarms, no more readings stored.
Red LED	Flashes once every 10 seconds	Currently logging, low alarm condition *
	Flashes twice every 10 seconds	Currently logging, high alarm condition *
	Flashes once every 20 seconds	Low battery, USB-503 continues logging, low alarm.
	Flashes twice every 20 seconds	Low battery, USB-503 continues logging, high alarm.
Both LEDs flash simultaneously	Both LEDs flash once every 20 seconds	Memory is full, low or high alarm condition, no more readings stored.
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.

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