USB-504

Specifications

MC
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.

Current

Table 1. Current specifications

Parameter	Specification
Measurement range	4 -20 mA DC typical
Resolution	±0.05 mA DC
Accuracy (overall error)	±1%, ±1 count

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 current samples	32,000
Units	mA DC

Alarms

Table 3. Alarm conditions

Parameter	Specification
High current alarm range	4 -20 mA DC
High current alarm resolution	0.16 mA
Low current alarm range	4 -20 mA DC
Low current alarm resolution	0.16 mA

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.

Environmental

Table 6. Environmental specifications

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 once every 20 seconds	Low battery, USB-504 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-504 continues logging, low alarm.
	Flashes twice every 20 seconds	Low battery, USB-504 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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