Simple Logger® Model SL50

Cat. #2156.50
Simple Logger® Model SL50 (Temperature, Thermocouple)

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Channels	One		
Input	Screw connector		
Connection	°F		°C
Measurement Range: **(Thermocouple Dependent)**	J	-346 to +2192	J	-210 to +1200
	K	-328 to +2502	K	-200 to +1372
	T	-328 to +752	T	-200 to +400
	N	-328 to +2372	N	-200 to +1300
	E	-328 to +1832	E	-200 to +1000
	R	-32 to +3200	R	-0 to +1760
	S	-32 to +3200	S	-0 to +1760
Accuracy (J, K, N, T, E)	$\theta \leq -148°F/-100°C \cdot \pm (0.4\%$ of R + 9°F/5°C) -148°F/-100°C $< \theta \leq +212°F/+100°C \cdot \pm (0.3\%$ of R +7.2°F/4°C) $\geq +212°F/+100°C \cdot \pm (0.2\%$ of R + 5.4°F/3°C)		
Accuracy (R, S)	$\theta = 32°F/0°C$ to $+212°F/+100°C \cdot \pm (0.3\%$ of R + 18°F/10°C) $\theta \geq +212°F/+100°C \cdot \pm (0.2\%$ of R + 14°F/8°C)		
Resolution	$\theta < 1000°F$ or °C $\cdot$ 0.1°F or °C $\theta > 1000°F$ or °C $\cdot$ 1°F or °C		
Sample Rate	16 samples/second		
Storage Rate	2 second		
Storage Modes	Start/Stop		
Recording Length	≥43 days		
Memory	2 million measurements (8Mb). Recorded data is stored in non-volitile memory and will be retained even if battery is low or removed.		
Communication	USB 2.0 (Simple Logger software free to download from web site)		

For more details, download the datasheet or user manual at www.aemc.com

Power Source	2x1.5V AA (LR6) alkaline batteries or USB 5V$_{DC}$
Battery Life	43 days with new batteries when recording
Low Battery	Battery voltage display in software (Batteries need replacement when the LED is dim or does not blink)
Dimensions	3.6 x 1.44 x 1.32" (91.44 x 36.58 x 34.8mm)
Weight (with battery)	3.5oz (99g)
Case	Polycarbonate
Operating Temperature	14° to 122°F (-10° to 50°C)
Storage Temperature	-4° to 140°F (-20° to 60°C)
Relative Humidity	Up to 85% @ 95°F (35°C)
Ingress Protection (IP)	IP40
EMC	EN 61326-1
Safety Compliance	IEC 61010-1 CE