



## Simple Logger<sup>®</sup> Model SL50

Cat. #2156.50

Simple Logger<sup>®</sup> Model SL50 (Temperature, Thermocouple)


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<b>Channels</b>	One	
<b>Input</b>	Screw connector	
<b>Connection</b>	°F	°C
<b>Measurement Range: (Thermocouple Dependent)</b>	J	-346 to +2192
	K	-328 to +2502
	T	-328 to +752
	N	-328 to +2372
	E	-328 to +1832
	R	-32 to +3200
	S	-32 to +3200
<b>Accuracy (J, K, N, T, E)</b>	$\theta \leq -148^{\circ}\text{F}/-100^{\circ}\text{C} \cdot \pm (0.4\% \text{ of } R + 9^{\circ}\text{F}/5^{\circ}\text{C})$ $-148^{\circ}\text{F}/-100^{\circ}\text{C} < \theta \leq +212^{\circ}\text{F}/+100^{\circ}\text{C} \cdot \pm (0.3\% \text{ of } R + 7.2^{\circ}\text{F}/4^{\circ}\text{C})$ $\geq +212^{\circ}\text{F}/+100^{\circ}\text{C} \cdot \pm (0.2\% \text{ of } R + 5.4^{\circ}\text{F}/3^{\circ}\text{C})$	
<b>Accuracy (R, S)</b>	$\theta = 32^{\circ}\text{F}/0^{\circ}\text{C} \text{ to } +212^{\circ}\text{F}/+100^{\circ}\text{C} \cdot \pm (0.3\% \text{ of } R + 18^{\circ}\text{F}/10^{\circ}\text{C})$ $\theta \geq +212^{\circ}\text{F}/+100^{\circ}\text{C} \cdot \pm (0.2\% \text{ of } R + 14^{\circ}\text{F}/8^{\circ}\text{C})$	
<b>Resolution</b>	$\theta < 1000^{\circ}\text{F} \text{ or } ^{\circ}\text{C} \cdot 0.1^{\circ}\text{F} \text{ or } ^{\circ}\text{C}$ $\theta > 1000^{\circ}\text{F} \text{ or } ^{\circ}\text{C} \cdot 1^{\circ}\text{F} \text{ or } ^{\circ}\text{C}$	
<b>Sample Rate</b>	16 samples/second	
<b>Storage Rate</b>	2 second	
<b>Storage Modes</b>	Start/Stop	
<b>Recording Length</b>	≥43 days	
<b>Memory</b>	2 million measurements (8Mb). Recorded data is stored in non-volatile memory and will be retained even if battery is low or removed.	
<b>Communication</b>	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](http://www.aemc.com)

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

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