



Thermocouple Thermometer Data Logger 1821 (Discontinued)

Cat. #2121.74

Designed for simplicity and one-hand operation. (Discontinued)

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Channel		One with LCD display and Backlight	
Input		Two miniature thermocouple connectors	
Connection		°F	°C
Measurement Range (Thermocouple Dependent)	J	-346 to +2192	-210 to +1200
	K	-328 to +2501	-200 to +1372
	T	-328 to +752	-200 to +400
	N	-328 to +2372	-200 to +1300
	E	-238 to +1742	-150 to +950
	R/S	32 to 3212	0 to 1767
Accuracy J, K, N, T, E		$\Theta \leq -148\text{ }^{\circ}\text{F} / -100\text{ }^{\circ}\text{C} \cdot \pm (0.2\% \text{ of } R + 1.1\text{ }^{\circ}\text{F} / 0.6\text{ }^{\circ}\text{C})$ $-148\text{ }^{\circ}\text{F} / -100\text{ }^{\circ}\text{C} < \Theta \leq +212\text{ }^{\circ}\text{F} / +100\text{ }^{\circ}\text{C} \cdot \pm (0.15\% \text{ of } R + 1.1\text{ }^{\circ}\text{F} / 0.6\text{ }^{\circ}\text{C})$ $\Theta \geq +212\text{ }^{\circ}\text{F} / +100\text{ }^{\circ}\text{C} \cdot \pm (0.1\% \text{ of } R + 1.1\text{ }^{\circ}\text{F} / 0.6\text{ }^{\circ}\text{C})$	
Accuracy (R, S)		$\Theta \leq +212\text{ }^{\circ}\text{F} / +100\text{ }^{\circ}\text{C} \cdot \pm (0.15\% \text{ of } R + 1.8\text{ }^{\circ}\text{F} / 1.0\text{ }^{\circ}\text{C})$ $\Theta \geq +212\text{ }^{\circ}\text{F} / +100\text{ }^{\circ}\text{C} \cdot \pm (0.1\% \text{ of } R + 1.8\text{ }^{\circ}\text{F} / 1.0\text{ }^{\circ}\text{C})$	
Resolution		$\Theta < 1000\text{ }^{\circ} \text{ or } ^{\circ}\text{C} \cdot 0.1\text{ }^{\circ}\text{F} \text{ or } ^{\circ}\text{C}$ $\Theta > 1000\text{ }^{\circ} \text{ or } ^{\circ}\text{C} \cdot 1\text{ }^{\circ}\text{F} \text{ or } ^{\circ}\text{C}$	
Differential Measurement		Yes, T1 - T2	
Other Functions		MIN-MAX, Alarms	
Sampling Rate		Programable from (1, 2, 5, 10, 20, 30) s, (2, 5, 10, 15, 30) min, and 1 h	
Recording		Manual start/stop on the product Short press for MEM: spot recording/long press for REC at the defined default rate Programmed recording: start date, recording interval, and end date defined using DataView® software	

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

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Memory	1,000,000 measurements on each channel (2 MB). Recorded data is stored in non-volatile memory and will be retained even if battery is low or removed.
Alarms	Alarm thresholds set using the software. Visual alert on the product, recording can be triggered on alarm thresholds.
Communication	Communicate with a computer via USB (cable provided); Communicate with a smartphone or tablet via Bluetooth link 4.2 BLE
Power Source	(3) 1.5 V AA (LR6) alkaline batteries or USB port (micro-USB adaptor offered as an accessory)
Battery Life	1000 h, 3 y with 15 min intervals
Dimensions	(5.9 x 2.84 x 1.28) in (150 x 72 x 32) mm
Weight (with battery)	9.2 oz (260 g) with batteries
Case	Polycarbonate
Operating Temperature	(14 to 140) ° F (-10 to 60) °C
Storage Temperature	(-4 to 140) ° F (-20° to 60) °C
Relative Humidity	Up to 85 % at 95 °F (35 °C)
Ingress Protection (IP)	IP50 with USB connector cap on
EMC	EN 61326-1
Safety Compliance	IEC 61010-1
Warranty	2 years

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