

# ENVIRONMENTAL TESTERS

## TEMPERATURE

### MODEL 1821/1822/1823

Versatility & high performance temperature measurement



### FEATURES

- Selectable Thermocouple type, J, K, T, N, E, R, S (Models 1821 & 1822)
- Single and dual channel (Models 1821 & 1822)
- Dual line display (Model 1822)
- RTD temperature measurement (Model 1823)
- Works with 100 or 1000 Ohm platinum sensor (Model 1823)
- User selectable temperature units, °F, °C
- Min and Max measurements stored
- HOLD function freezes the display
- Spot or continuous recording up to 1 million measurements
- Blue luminescent backlit display
- Programmable store on alarm function
- Magnetic mount
- Programmable alarms through software
- DataView® graphing and analysis software included
- Battery or USB powered
- Free app for Android™ from the Google® Play Store

### PRODUCT INCLUDES

- 3 x 1.5V AA alkaline batteries
- 6ft USB cable, type A to type B USB
- Quick start guide
- Soft carrying case
- K Thermocouple flexible sensor (Model 1821 only)
- (2) K Thermocouple flexible sensor (Model 1822 only)
- (1) 3 pin RTD connector (Model 1823 only)
- User manual and DataView® application software included on USB Drive

CATALOG NO.	DESCRIPTION
2121.74	Thermocouple Thermometer Data Logger Model 1821
2121.75	Thermocouple Thermometer Data Logger Model 1822
2121.76	RTD Thermometer Data Logger Model 1823
<b>Accessories/Replacement - available on website store from <a href="http://www.aemc.com">www.aemc.com</a></b>	
2138.66	Cable - 6ft USB Type A - Type B Micro
5000.82	3-Prong Mini Flat Pin Connector (RTD) (for Model 1823)
5000.44	MultiFix Universal Mounting System
2154.71	Carrying Pouch
2153.78	Adapter - US Wall Plug to USB
2122.31	Shock Proof Housing

### TEMPERATURE DATA LOGGERS MODELS 1821, 1822, 1823

	1821 THERMOCOUPLE THERMOMETER	1822 THERMOCOUPLE THERMOMETER	1823 RTD THERMOMETER
	J, K, T, N, E, R, S 1 Channel	J, K, T, N, E, R, S 2 Channel	PT100, PT1000 1 Channel
Measurement range	<b>J</b> 210 to +1,200 °C / -346 to +2,192 °F <b>K</b> 200 to +1,372 °C / -328 to +2,501 °F <b>T</b> 250 to +400 °C / -418 to +752 °F <b>N</b> 200 to +1,300 °C / -328 to +2,372 °F <b>E</b> 150 to +950 °C / -238 to +1,742 °F <b>R, S</b> 0 to +1,767 °C / 32 to +3,212 °F		-100 to +400°C -148 to +752°F
Resolution	Display in °C: $\emptyset < 1,000$ °C : 0.1 °C and $\emptyset \geq 1,000$ °C : 1 °C Display in °F: $\emptyset < 1,000$ °F : 0.1 °F and $\emptyset \geq 1,000$ °F : 1 °F		Display in °C : 0.1°C Display in °F : 0.1°F
Accuracy (°C)	<b>J, K, T, N, E</b> $\emptyset \leq -100$ °C $\pm$ (0.2% Reading + 0.6°C) -100°C < $\emptyset \leq +100$ °C $\pm$ (0.15% R + 0.6°C) +100°C < $\emptyset \pm$ (0.1% R + 0.6°C)  <b>R, S</b> $\emptyset \leq +100$ °C $\pm$ (0.15% R + 1.0°C) +100°C < $\emptyset \pm$ (0.1% R + 1.0°C)		$\pm$ (0.4% R + 0.3°C)
<b>FUNCTIONS</b>			
Recording	Manual start/stop Short press on MEM: spot recording / Long press on REC: recording at the user selectable rate Programmed recording rates from 1 minute to 2 hours Start date and end date can be customized with the PC software		
Alarms	Alarm thresholds set using the software. Visual alert on the product in the event of an overrun Recording can be triggered on alarm thresholds		
Data storage	More than 1 million measurements		
Min-Max	Real-time display of Min and Max readings available at the press of a button		
Hold	Freezes the measurement value on the display		
Differential measurement	Model 1822 only		
Units	°C or °F		
Backlighting	Blue luminescent		
Automatic power off	User selectable choice of 3 minutes, 5 minutes, 10 minutes, or off through DataView® software		
<b>POWER SUPPLY</b>			
Type	3 x 1.5V AA / LR6 alkaline batteries Connection to line power using supplied micro-USB cable. Wall adapter sold separately		
Battery life	Model 1821 & 1822: 1,000 hrs (portable mode) Model 1823 : 800 hrs (portable mode) 3 years for recording (15-minute measurement interval)		
<b>PHYSICAL SPECIFICATIONS</b>			
Interfaces	2 communication modes: Bluetooth and USB		
Mounting	Case equipped with a magnet, a wall mount system and a slot for suspension of the product. Compatible with the Multifix accessory (Cat. 5000.44). Shock proof housing available as an accessory		
Connections	Compensated miniature female connectors		3-point flat connector
Dimensions/Weight	5.9 x 2.84 x 1.28" (150 x 72 x 32mm) / 9.2oz (260g) with batteries		
Protection	IP54		
Operating Range	Temperature from 14 to 140 °F (-10 to +60 °C) / Humidity from 10 to 90 %RH		
Standards	IEC61010-1 / IEC 61326-1		
<b>GENERAL SPECIFICATIONS</b>			
DataView® Software Functions	Real-time mode; Automatic report generation in Microsoft Word format Graph or value-table presentation; Data export in graph or Microsoft Excel table format		
Warranty	2 years		