

ENVIRONMENTAL TESTERS

TEMPERATURE

MODELS 1821, 1822 & 1823

Versatility & high performance temperature measurement



with USB
connector closed

DataView®

PRODUCT INCLUDES

Soft carrying case, 6 ft USB cable (type A to type B USB), K Thermocouple flexible sensor (1821 only), (2) K Thermocouple flexible sensor (1822 only), (1) 3 pin RTD connector (1823 only), (3) 1.5V AA alkaline batteries, printed quick start guide, and a USB drive with DataView® software and a user manual.



ACCESSORIES/REPLACEMENTS

Catalog #2138.66

6 ft USB cable

Catalog #5000.82

Adapter - 3-Prong Mini Flat Pin Connector (RTD)(1823 only)

Catalog #5000.44

MultiFlex Universal Mounting System

Catalog #2154.71

Carrying Pouch

Catalog #2153.78

Adapter - US Wall Plug to USB

Catalog #2122.31

Shock Proof Housing

FEATURES

- Selectable Thermocouple type, J, K, T, N, E, R, S (1821 & 1822)
- Single and dual channel (1821 & 1822)
- Dual line display (1822)
- RTD temperature measurement (1823)
- Works with 100 or 1000 Ohm platinum sensor (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

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



Vol. 21 Rev.01 07/2021

Technical Assistance (800) 343-1391

www.aemc.com

63

Find Quality Products Online at:

www.GlobalTestSupply.com

sales@GlobalTestSupply.com

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
MEASUREMENTS			
Measurement Range	J: 210 to + 1,200 °C / -346 to + 2,192 °F K: 200 to + 1,372 °C / -328 to + 2,501 °F T: 250 to + 400 °C / -418 to + 752 °F N: 200 to + 1,300 °C / -328 to + 2,372 °F E: 150 to + 950 °C / -238 to + 1,742 °F R,S: 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)	J, K, T, N, E: $\emptyset \leq - 100^{\circ}\text{C} \pm (0.2\% \text{ Reading} + 0.6^{\circ}\text{C})$ $- 100^{\circ}\text{C} < \emptyset \leq + 100^{\circ}\text{C} \pm (0.15\% \text{ R} + 0.6^{\circ}\text{C})$ $+ 100^{\circ}\text{C} < \emptyset \pm (0.1\% \text{ R} + 0.6^{\circ}\text{C})$	R, S: $\emptyset \leq + 100^{\circ}\text{C} \pm (0.15\% \text{ R} + 1.0^{\circ}\text{C})$ $+ 100^{\circ}\text{C} < \emptyset \pm (0.1\% \text{ R} + 1.0^{\circ}\text{C})$	$\pm (0.4\% \text{ R} + 0.3^{\circ}\text{C})$
FUNCTIONS			
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	–	Yes	–
Units	°C or °F		
Backlighting	Blue luminescent		
Automatic Power Off	User selectable choice of 3, 5 or 10 minutes, or off through DataView® software.		
MECHANICAL			
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 (Cat. #2122.31).		
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		
Operating Range	Temperature from 14 to 140 °F (-10 to +60 °C) / Humidity from 10 to 90 %RH		
POWER SOURCE			
Type	(3) 1.5V AA / LR6 alkaline batteries		
Battery Life	Connection to line power using supplied micro-USB cable. Wall adapter sold separately Model 1821 & 1822: 1,000 hrs (portable mode) Model 1823 : 800 hrs (portable mode) 3 years for recording (15-minute measurement interval)		
SAFETY			
Safety Rating	IEC61010-1 / IEC 61326-1		
Ingress Protection	IP50 with the USB connector closed, per IEC 60 529		
GENERAL			
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		