

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 |



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 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) | | |
| 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 | | |