



Models 1821, 1822 & 1823

Single and dual channel temperature with selectable Thermocouple type 100/1000ohm selectable RTD type

SPECIFICATIONS

MODELS	1821	1822	1823
Measurement Range	J-346° to +2192°F (-210° to +1200°C) K-328° to +2501°F (-200° to +1372°C) T-328° to +752°F (-200° to +400°C) N-328° to +2372°F (-210° to +1300°C) E-238° to +1742°F (-150° to +950°C) R, S +32° to +3212°F (0° to +1767°C)		- 100 to + 400°C -148 to + 752°F
Accuracy (°C)	J, K, T, N, E $\theta \leq -100^{\circ}\text{C} \pm (0.2\% \text{ Reading} + 0.6^{\circ}\text{C})$ $-100^{\circ}\text{C} < \theta \leq +100^{\circ}\text{C} \pm (0.15\% \text{ R} + 0.6^{\circ}\text{C})$ R, S $+100^{\circ}\text{C} < \theta \pm (0.1\% \text{ R} + 0.6^{\circ}\text{C})$ $\theta \leq +100^{\circ}\text{C} \pm (0.15\% \text{ R} + 1.0^{\circ}\text{C})$ $+100^{\circ}\text{C} < \theta \pm (0.1\% \text{ R} + 1.0^{\circ}\text{C})$		$\pm (0.4\% \text{ R} + 0.3^{\circ}\text{C})$
Resolution	°C: $\theta < 1,000^{\circ}\text{C} : 0.1^{\circ}\text{C}$ and $\theta \geq 1,000^{\circ}\text{C} : 1^{\circ}\text{C}$ °F: $\theta < 1,000^{\circ}\text{F} : 0.1^{\circ}\text{F}$ and $\theta \geq 1,000^{\circ}\text{F} : 1^{\circ}\text{F}$		°C: 0.1°C °F: 0.1°F
GENERAL			
Recording	Manual start/stop on the product Short press for MEM: spot recording/long press for REC at the defined default rate Programed recording: start date, recording interval, and end date defined using DataView® software		
Other Functions	MIN-MAX, Alarms		
Sampling Rate	Programmable from 1s, 2s, 5s, 10s, 20s, 30s, 2min, 5min, 10min, 15min, 30min, and 1hr		
Memory	1,000,000 measurements on each channel. Recorded data is stored in non-volatile memory and will be retained even if battery is low or removed.		
Communication	USB 2.0 and Bluetooth 4.0 BLE range 10m typical		
Power Source	3x1.5V AA (LR6) alkaline batteries or USB port (micro-USB adaptor offered as an accessory)		
Battery Life	1,000 hrs.	800 hrs.	
	3yrs recording with 15 minutes intervals		
Dimensions	5.9 x 2.84 x 1.28" (150 x 72 x 32mm)		
Weight (with battery)	9.2oz (260g) 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		

FEATURES

- Selectable Thermocouple type, J, K, T, N, E, R, S (Models 1821 & 1822)
- Single and dual channel Models (1821 & 1822)
- Dual line display on Model (1822)
- RTD temperature measurement (1823)
- Selectable 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



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