



# ENVIRONMENTAL TESTERS

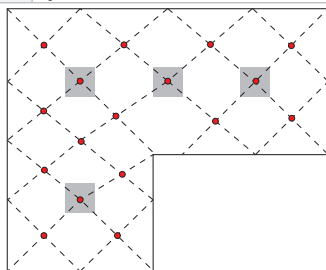
## Lightmeter Data Logger

### Model 1110

Features optical sensors that are designed to match the response of the human eye

#### ► SPECIFICATIONS

MODELS	1110	
Measurement Range	.01 lx to 200,000lx	0.01 fc to 18,580 fc
Accuracy	±3% of R on incandescent sources ±6% of R on LEDs (3,000K to 6,000K) ±9% of R on fluorescent sources LED mode: ±4% of R (at 4,000K) Flou mode: ±4% of R (type F11, 4,000K)	
Accuracy with compensation	Flou mode: ±4% of R (type F11, 4,000K)	
Display Resolution	0.1 lx (0.1 lx to 999.9 lx) 1 lx (1,000 lx to 9,999 lx) 10 lx (10,000 lx to 99.99 klx) 100 lx beyond	0.01 fc (0.01 fc to 99.99 fc) 0.1 fc (100.0 fc to 999.9 fc) 1 fc (1,000 fc to 9,999 fc) 10 fc beyond
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-AVG-MAX-HOLD	
Sampling Rate	Programmable from 1s, 2s, 5s, 10s, 20s, 30s, 2min, 5min, 10min, 15min, 30min, and 1hr	
MAP mode	The MAP mode can be used to map the lighting on the surface of a room. In this case the measurements are saved in the same file	
Memory	1,000,000 measurements on each channel (4MB). 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	
Power Source	3x1.5V AA (LR6) alkaline batteries or USB port (micro-USB adaptor offered as an accessory)	
Battery Life	500hrs, 3yrs with 15min intervals	
Dimensions	<b>Case:</b> 5.9 x 2.84 x 1.28" (150 x 72 x 32mm) <b>Sensor:</b> 2.64 x 2.52 x 1.38" (67 x 64 x 35mm)	
Weight (with battery)	12.2 oz (345g) 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 90%	
Ingress Protection (IP)	IP50 with USB connector closed and protective cap on sensor	
EMC	EN 61326-1	
Safety Compliance	IEC 61010-1	
Warranty	2 years	



Measure and record multiple measurements to create an illuminance map of the room or area of interest



#### ► FEATURES

- User selectable light source, natural, LED or fluorescent
- Spectral error compensation for LED and fluorescent lighting
- Removable light sensor with expandable cord up to 48"
- Map mode profiles the illuminance map of the area or room by storing multiple measurements
- Min, Max, and Average measurements stored
- Hold function freezes the display
- Spot or continuous recording of up to 1,000,000 measurements stored in 8MB flash memory
- Blue luminescent backlit display
- User selectable Foot Candle or Lux units
- USB and Bluetooth communication
- Magnetic mount
- Battery or USB powered
- DataView® graphing and analysis software included

#### CATALOG NO.

#### DESCRIPTION

2121.71

Lightmeter Data Logger Model 1110

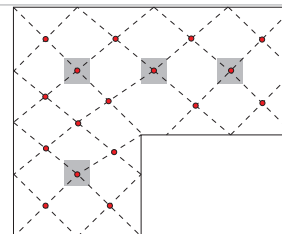


### Model 1227

**Easily measure and record wind speed, air flow, and temperature**

#### ► SPECIFICATIONS

MODELS	1227	
	AIR SPEED	AIR FLOW
Measurement Range	0.25 to 35.0m/s (49.0 to 6,890.0fpm)	0.00 to 2,999m³/h
Accuracy	±3% of R + 4 cts (0.25 to 2.99m/s) ±3% of R + 1 ct (3.0 to 35.0m/s)	8% of R
Resolution	0.01m/s from 0.25 to 2.99m/s .1fpm from 49.0 to 99.9fpm 0.1m/s from 3.0 to 35m/s 1fpm from 100 to 6,890fpm	0.01m³/h from 0.00 to 2.99m³/h 0.1 m³/h from 3.0 to 99.9m³/h 1m³/h from 100 to 2.99m³/h
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	
TEMPERATURE		
Sensor	CTN	
Accuracy	32° to 122°F: ±1.4°F -4° to 32°F: ±2.3°F	0° to 50°C: ±0.8°C -20° to 0°C: ±1.6°C
Resolution	0.1°F	0.1°C
GENERAL		
Other Functions	MIN-AVG-MAX-HOLD	
Sampling Rate	Programmable from 1s, 2s, 5s, 10s, 20s, 30s, 2min, 5min, 10min, 15min, 30min, and 1hr	
MAP mode	The MAP mode can be used to map the air speeds on the surface of a room. In this case the measurements are saved in the same file	
Memory	1,000,000 measurements on each channel (4MB). 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 1m typical	
Power Source	3x1.5V AA (LR6) alkaline batteries or USB port (micro-USB adaptor offered as an accessory)	
Battery Life	200 hrs., / 8 days when recording with 15 minutes intervals	
Dimensions	Case: 5.9 x 2.84 x 1.28" (150 x 72 x 32mm) Sensor: 6.3 x 3.15 x 1.5" (160 x 80 x 38mm)	
Weight (with battery)	14.1oz (400g) 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 90%	
Ingress Protection (IP)	IP40	
EMC	EN 61326-1	
Safety Compliance	IEC 61010-1	
Warranty	2 years	



*Measure and record multiple measurements to create a map of air flow of the room or area of interest*



#### ► FEATURES

- Measures temperature and air measurements
- Dual line display
- User selectable wind speed or air flow measurement
- User selectable measurement units M/S, F/M, KM/M, M/H or M3/S, M3/H, L/S, CF/M
- Map mode profiles the illuminance map of the area or room by storing multiple measurements
- Removable anemometer with expandable cord up to 48"
- Min, Max and Average measurements stored
- Hold function freezes the display
- Spot or continuous recording up to 1 million measurements stored in 8MB flash memory
- Blue luminescent backlit display
- USB and Bluetooth communication
- Magnetic mount
- Battery or USB powered
- DataView® graphing and analysis software included

#### CATALOG NO. DESCRIPTION

2121.72 Thermo-Anemometer Data Logger Model 1227



# ENVIRONMENTAL TESTERS

## Thermo-Hygrometer Data Logger

### Model 1246

**Monitor and record temperature, humidity, and dew point**

#### ► SPECIFICATIONS

MODELS	1246	
RELATIVE HUMIDITY		
Measurement Range	3 to 98% RH	
Accuracy	± 2%RH + 1 ct (10 to 90%HR)	±4%RH + 1 ct (outside this range)
Resolution	0.1%RH	
TEMPERATURE		
Sensor	Semiconductor	
Measurement Range	14.0° to 140.0°F	-10.0° to 60.0°C
Accuracy	50.0° to 104.0°F: ±2.5°F + 1ct	10.0° to 40.0°C: ±0.5°C + 1ct
Resolution	0.1°F	0.1°C
DEW POINT		
Measurement Range	14.0° to 140.0°Ftd	-10.0° to 60.0°Ctd
Accuracy	±1.8°F >30%RH ±2.7°F from 20 to 30%RH	±1.0°C >30%RH ±1.5°C from 20 to 30%RH
Resolution	0.1°F	0.1°C
GENERAL		
Recording	Manual start/stop on the product	
	Short press for MEM: spot recording/long press for REC at the defined default rate	
Alarm	Programed recording: start date, recording interval, and end date defined using DataView® software	
	Alarm threshold settable on the software/ Recoding can be triggered on an alarm threshold	
MIN-MAX-HOLD	Yes	
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 (4MB). 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 4.9 BLE range 10m typical	
Power Source	3x1.5V AA (LR6) alkaline batteries or USB port (micro-USB adaptor offered as an accessory)	
Battery Life	1,000hrs / 3yrs when recording with 15min intervals	
Dimensions	7.36 x 2.84 x 1.28" (187 x 72 x 32mm)	
Weight (with battery)	14.1oz (400g) 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 90%	
Ingress Protection (IP)	IP54 with USB connector closed and protective cap in place	
EMC	EN 61326-1	
Safety Compliance	IEC 61010-1	
Warranty	2 years	



#### ► FEATURES

- Measures temperature , humidity and dew point
- Dual line display toggles between any two of the measurements
- User selectable temperature units, °F, °C
- Built in sensor with removable protective cap
- Min, and Max measurements stored
- Hold function freezes the display
- Spot or continuous recording up to 1 million measurements
- Blue luminescent backlit display
- Programmable alarms for temperature and humidity through software
- USB and Bluetooth communication
- Magnetic mount
- Battery or USB powered
- DataView® graphing and analysis software included

#### CATALOG NO.

#### DESCRIPTION

2121.73 Thermo-Anemometer Data Logger Model 1246





### 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
<b>GENERAL</b>			
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. 3yrs recording with 15 minutes intervals		800 hrs.
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

