# ENVIRONMENTAL TESTERS

н <u>581</u> -5.581

0

TTPE

742

MODEL 1821 THERMOCOUPLE

85.4F

014

HAX

0

127

007 1510

-

0

96

MAX

- te

() AEMC

### **FEATURES**

- Compact and lightweight
- ► Simple-to-use
- ► Hand-held or wall mountable
- **b** Data logging (model dependent)

MODEL 124

244 819

0.14

5778

\*

- User programmable (model dependent)
- Multi line backlit display (model dependent)
- USB and Bluetooth communication (model dependent)
- Analysis/Report generating software included (model dependent)
- Battery or USB powered (model dependent)

# LIGHT•SOUND•HUMIDITY•MOISTURE•CO<sub>2</sub> GAS•TEMPERATURE•IR TEMPERATURE

MODEL 1227 THE RIV ANE MONETER 492.13

19.9°F

86. Ir

49.5

1077 5.8H

() AEMC

*Our products are backed by over 100 years of experience in test and measurement equipment, and encompass the latest international standards for quality and safety.* 

Technical Hotline: (800) 343-1391
Swww.aemc.com

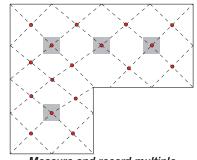


# LIGHTMETER

# Measure lighting at any time

### **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<sup>®</sup> graphing and analysis software included



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







MODEL 1110

### Product 2121.71 Includes

- Soft carrying case
- 3 x 1.5 V AA alkaline batteries
- 6ft USB cable, type A to type B USB
- Quick start guide
- User manual and DataView® application software included on USB Drive

### **Accessories/Replacement Parts**

- 2118.65 Soft Carrying Case
- 2138.66 Cable 6ft USB Type A Type B Micro
- 2118.09 General Purpose Carrying Case
- 2122.31 Shock Proof Housing
- 2153.78 Adapter US Wall Plug to USB
- 5000.44 Multifix Universal Mounting System

Lightmeter Data Logger Model 1110		
Measurement ranges	0.1 lx to 200,000 lx (lux) 0.01 fc to 18,580 fc (foot-candle)	
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 to 9.999 fc) 10 fc beyond
	METROLOGICAL	SPECIFICATIONS
	Class C luxmeter as per NF C 42-710 standard	Mode with compensation
Accuracy for measurement in lux	$\pm$ 3% of reading on incandescent sources (by default) $\pm$ 6% of reading on LEDs (3,000 K to 6,000 K) $\pm$ 9% of reading on fluorescent sources	LED mode: $\pm$ 4% of reading (at 4,000 K) Fluo mode: $\pm$ 4% of reading (type F11, 4,000 K)
	FUNC	TIONS
Recording	Manual start/stop Short press for MEM: spot recording / Long press for 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	
Data storage	More than 1 million measurements	
Min-Avg-Max	Real-time display of Min, Max and Average readings av	ailable at the press of a button
Hold	Freezes the measurement value on the display	
MAP mode	The MAP function can be used to map the lighting on a surface or in a room. Lighting measurements are saved in the same file and available as a graphical display through the DataView software.	
Units	Ix or fc	
Backlighting	Blue luminescent	
Automatic power-off	User selectable choice of 3 minutes, 5 minutes, 10 minutes, or off through DataView software	
POWER SOURCE		
Туре	3 x 1.5 V AA / LR6 alkaline batteries Connection to line power using supplied micro-USB cable. Wall adapter sold separately	
Battery life	500 hrs (portable mode) / 3 years of recording (15-minute measurement interval)	
	PHYSICAL SP	ECIFICATIONS
Interfaces	2 communication modes: Bluetooth wireless link and USB	
Mounting	Case equipped with a magnet for mounting to a metal surface and a tear drop for wall mounting	
Dimensions / weight	Compatible with the Multifix accessory (cat. 5000.44) Case: 5.9 x 2.84 x 1.28" (150 x 72 x 32 mm) / Sensor: 2.64 x 2.52 x 1.38" (67 x 64 x 35 mm) / 12.2 oz (345 g) with batteries	
Protection	IP50	
Operating range	Temperature: 14 to 140 °F (-10 to +60 °C) / Humidity: 0 to 90 %RH	
Compliance	IEC61010-1 / IEC 61326-1 / Class C luxmeter	
	GENERAL SPI	ECIFICATIONS
DataView <sup>®</sup> software functions	Display as a graph or a table of values / Data export in graph or Microsoft Excel table form Real-time mode / Automatic report generation through standard or user customizable reports	
Warranty	2 years	



MODEL 1227

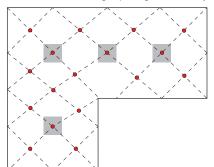
<u> 199</u>7

492.13

# THERMO-ANEMOMETER

# Measure air speed & flow rate in all situations

- 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 air flow 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<sup>®</sup> graphing and analysis software included



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



Cat. #2122.32 Set of Air Flow Measurement Cones





# Product 2121.72 Includes

- Soft carrying case
- 3 x 1.5 V AA alkaline batteries
- 6ft USB cable, type A to type B USB
- Quick start guide
- User manual and DataView® application software included on USB Drive

#### **Accessories/Replacement Parts**

- 2118.65 Case Soft Carrying Case
- 2122.33 Replacement Air Flow Sensor
- 2138.66 Cable 6ft USB Type A Type B Micro
- 2118.09 General Purpose Carrying Case
- 2122.31 Shock Proof Housing
- 2122.32 Set of Air Flow Measurement Cones
- 2153.78 Adapter US Wall Plug to USB
- 5000.44 Multifix Universal Mounting System

#### Thermo-Anemometer Data Logger Model 1227 AIR SPEED AND FLOW RATE

	AIR SPEED AN			
Type of sensor	Vane / Optical Detection			
	Speed	Flow rate		
Measurement range	0.25 m/s to 35.0 m/s (49.0 to 6890.0 fpm)	0.00 to 2,999 m3/h		
Resolution	0.01 m/s (0.25 to 2.99 m/s)/0.1 fpm (49.0 to 99.9 fpm)       0.01 m3/h (0.00 to 2.99 m3/h)         0.1 m/s (3.0 to 35.0 m/s) / 1 fpm (100 to 6,850 fpm)       0.1 m3/h (3.0 to 99.9 m3/h)         1 m3/h (100 to 2,999 m3/h)       1 m3/h (100 to 2,999 m3/h)			
Accuracy	$\pm$ 3 % of reading $\pm$ 4 counts	$\pm$ 8% of reading		
	TEMPEI	RATURE		
Type of sensor	CT	ΓN		
Measurement range	- 20.0 to + 50.0 °	C/ - 4 to + 122 °F		
Resolution	Display in °C: 0.1°C	Display in °F: 0.1°F		
Accuracy (°C)	0 to 50 °C: $\pm$ 0.8 °C /	-20 to 0 °C: ± 1.6 °C		
	FUNC	TIONS		
Recording	Manual Start / Stop Short press for MEM: spot recording / Long press for RE Programmed recording rates from 1 minute to 2 hours Start date and end date can be customized with the PC	·		
Data Storage	More than 1 million measurements			
Min-Avg-Max	Real-time display of Min, Max and Average readings available	ailable at the press of a button		
Hold	Freezes the measurement value on the display	Freezes the measurement value on the display		
MAP mode	The MAP function can be used to map the air speeds measured			
Flow-rate measurement	Yes: direct reading with the cones proposed as accessories or on the basis of a surface defined by the user.			
Backlighting	Blue Luminescent			
Units	Air-speed units: m/s, km/h, fpm, mph - Air flow-rate units: m3/s, m3/h, l/s, cfm			
Automatic power-off	User selectable choice of 3 minutes, 5 minutes, 10 minutes, or off through DataView software			
	POWER SUPPLY			
Туре	3 x 1.5V AA / LR6 alkaline batteries Connection to line power using supplied micro-USB cable. Wall adapter sold separately			
Battery life	200 hrs (portable mode) / 8 days of recording (15-minute intervals)			
	PHYSICAL SP	ECIFICATIONS		
Interfaces	2 communication modes: Bluetooth wireless link and U	2 communication modes: Bluetooth wireless link and USB		
Mounting	Case equipped with a magnet for mounting to a metal surface and a tear drop for wall mounting Compatible with the Multifix accessory (cat. 5000.44)			
Dimension/weight	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)/ 14.1oz (400g) with batteries			
Protection	IP54			
Operating range	Temperature: 14 to 140 °F (-10 to +60 °C) / Humidity: 10 to 90 %RH			
Compliance	IEC61010-1 / IEC 61326-1			
	GENERAL SPI	ECIFICATIONS		
DataView <sup>®</sup> software functions	Display as a graph or a table of values / Data export in graph or Microsoft Excel table form Real-time mode / Automatic report generation through standard or user customizable reports			
Warranty	2 years			
-				



# THERMO-HYGROMETER

Measure humidity & temperature in all conditions

### 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 included software
- ► USB and Bluetooth communication
- Magnetic mount
- ► Battery or USB powered
- ► DataView<sup>®</sup> graphing and analysis software included



CHAUVIN ARNOUX GROUP



### Product 2121.73 Includes

- Soft carrying case
- 3 x 1.5 V AA alkaline batteries
- 6ft USB cable, type A to type B USB
- Quick start guide
- User manual and DataView® application software included on USB Drive

### **Accessories/Replacement Parts**

- 2138.66 Cable 6ft USB Type A Type B Micro
- 2154.71 Carrying Pouch
- 2118.09 General Purpose Carrying Case
- 2122.31 Shock Proof Housing
- 2153.78 Adapter US Wall Plug to USB
- 5000.44 Multifix Universal Mounting System

	Thermo-Hygrometer Data Logger	· Model 1246	
		HUMIDITY	
Туре	Capacitive sensor		
Measurement range	3.0 to 98.0 %RH		
Resolution	0.1	%RH	
Accuracy	10 to 90 %RH: ± (2 %RH ± 1 ct),	outside that range: $\pm$ (4 %RH $\pm$ 1 ct)	
Response time (66%)	6	i0 s	
	TEMPE	ERATURE	
Type of sensor	Temperature senso	r with semiconductor	
Measurement range	- 10.0 to + 60.0°C	14.0 to + 140.0°F	
Resolution	Display in °C: 0.1°C	Display in °F: 0.1°F	
Accuracy (°C)		± (0.5°C ± 1 ct) -25) ± 1 ct) / T= temperature in °C	
Response time (66%)	3	60 s	
	DEW	POINT	
Measurement range	- 20.0 to + 60.0°Ctd	-4.0 to + 140.0 °Ftd	
Resolution	Display in °C: 0.1°C	Display in °F: 0.1°F	
	FUNC	CTIONS	
Recording	Manual Start / Stop Short press for MEM: spot recording / Long press for 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 settable in the software / Recording can be triggered on an alarm threshold		
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		
Units	°C or °F / %RH		
Backlighting	Blue luminescent		
Automatic power-off	User selectable choice of 3 minutes, 5 minutes, 10 minutes, or off through DataView software		
	POWER SUPPLY		
Туре	3 x 1.5V AA / LR6 alkaline batteries Connection to line power using supplied micro-USB cable. Wall adapter sold separately		
Battery life	1,000 hrs (portable mode) / 3 years of recording (15-minute measurement interval)		
	PHYSICAL SPECIFICATIONS		
Interfaces	2 communication modes: Bluetooth wireless link and		
Mounting	Case equipped with a magnet for mounting to a meta Compatible with the Multifix accessory (cat. 5000.44		
Dimensions / weight	7.36 x 2.84 x 1.28" (187 x 72 x 32mm) / 14.1 oz (40	7.36 x 2.84 x 1.28" (187 x 72 x 32mm) / 14.1 oz (400 g) with batteries	
Protection	IP54		
Operating range	Temperature: 14 to 140 °F (-10 to +60 °C) / Humidity: 10 to 90 %RH		
Compliance	IEC61010-1 / IEC 61326-1		
	GENERAL SE	PECIFICATIONS	
DataView <sup>®</sup> software	Display as a graph or a table of values / Data export in graph or Microsoft Excel table form Real-time mode / Automatic report generation through standard or user customizable reports		
functions	near-time mode / Automatic report deneration timout	In standard of user customizable reports	



# MODEL 1821/1822/1823

# TEMPERATURE



### **Products Include**

- 3 x 1.5V AA alkaline batteries
- 6ft USB cable, type A to type B USB
- Quick start guide
- Soft carrying case
- K Thermocouple needle 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



MODEL 1822 ORDER NUMBER: 2121.75

MODEL 1823 Order Number: 2121.76

### **Accessories/Replacement Parts**

- 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

# 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 on 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<sup>®</sup> graphing and analysis software included
- ► Battery or USB powered





Temperature Data Loggers Models 1821, 1822, 1823           1821         1822         1823			1823
	Thermocouple Thermometer	Thermocouple Thermometer	RTD Thermometer
	J, K, T, N, E, R, S 1 channel	J, K, T, N, E, R, S 2 channels	, Pt100, Pt1000 1 channel
Measurement range	$ \begin{array}{c} J - 210 \text{ to } + 1,200 \ ^\circ \text{C} \ / \ -346 \ \text{to } + 2,192 \ ^\circ \text{F} \\ \text{K} - 200 \ \text{to } + 1,372 \ ^\circ \text{C} \ / \ -328 \ \text{to } + 2,501 \ ^\circ \text{F} \\ \text{T} - 250 \ \text{to } + 400 \ ^\circ \text{C} \ / \ -328 \ \text{to } + 2,372 \ ^\circ \text{F} \\ \text{N} - 200 \ \text{to } + 1,300 \ ^\circ \text{C} \ / \ -328 \ \text{to } + 2,372 \ ^\circ \text{F} \\ \text{E} - 150 \ \text{to } + 950 \ ^\circ \text{C} \ / \ -238 \ \text{to } + 1,742 \ ^\circ \text{F} \\ \text{R}, \ \text{S} - 0 \ \text{to } + 1,767 \ ^\circ \text{C} \ / \ 32 \ \text{to } + 3,212 \ ^\circ \text{F} \end{array} $		
Resolution		0.1 °C and $\emptyset \ge 1,000$ °C : 1 °C 0.1 °F and $\emptyset \ge 1,000$ °F : 1 °F	Display in °C : 0.1°C Display in °F : 0.1°F
Accuracy (°C)	J, K, T, N, E $\emptyset \le -100^{\circ}C \pm (0.2^{\circ})$ $-100^{\circ}C < \emptyset \le +100^{\circ}$ $+100^{\circ}C < \emptyset \pm (0.2^{\circ})$	% Reading + 0.6°C) C $\pm$ (0.15% R + 0.6°C) 0.1% R + 0.6°C) 0.15% R + 1.0°C)	± (0.4% R + 0.3°C)
	+ 100°C < Ø ± (	0.1% R + 1.0°C) INCTIONS	
	Manual start/stop	JNGTIONS	
Recording			user selectable rate
Alarms	Alarm thresholds set using the softw Recording can be triggered on alarm	are. Visual alert on the product in the thresholds	event of an overrun
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		
	POW	/ER SUPPLY	
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)		
	PHYSICAL	SPECIFICATIONS	
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). Sheath available as an accesory		
Connections	Compensated miniature female connectors 3-point flat connector		
Dimensions/Weight	5.9 x 2.84 x 1.28" (150 x 72 x 32mm		
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		
		SPECIFICATIONS	
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		
	2 /000		



# **AIR QUALITY** DATA LOGGER



# FEATURES

- ► CO<sub>2</sub>, temperature, and humidity logger
- ► Free app available from Android and Google Play stores
- ► Compact and stand-alone: for mounting or portable use
- ► User-friendly: comfort indicators based on the CO2, temperature and humidity levels
- ► Accurate: complies with the latest standards concerning air quality monitoring
- Quick, simple data download using supplied DataView<sup>®</sup> software
- ► On-site calibration test module with adapter, tube and software for adjusting the zero and thresholds

### Products 2138.08 & 2138.09 Include

- Meter in carrying pouch
- Adapter US wall to USB
- 6ft USB cable
- 2 AA batteries
- Quick start guide
- User manual and DataView® application software included on USB Drive

#### **Accessories/Replacement Parts**

- 2138.61 Wall Mount Holster (Gray)
- 2138.62 **Desktop Stand (White)**
- 2153.78 Adapter US Wall Plug to USB
- 2138.67 Wall Mount Holster (White)

# Monitor CO<sub>2</sub>, temperature, and humidity for a healthy environment

# **SPECIFICATIONS**

	CO <sub>2</sub> Measurement		
Measuring Principle	Non-dispersive infrared (NDIR) technology		
Type of Sensor	Double-beam infrared cell sensor		
Measurement Range	0 to 5000 ppm		
Accuracy ( $CO_2$ )	$\pm 50$ ppm $\pm 3\%$ of value measured		
Response Time, 63%	< 200 seconds		
Resolution	1 ppm		
	Temperature Measurement		
Type of Sensor	CMOS		
Units	°C or °F		
Measurement Range	14° to 140°F (-10° to 60°C)		
Accuracy	±0.1°F (±0.5°C)		
Resolution	0.1°F (0.1°C)		
Humidity Measurement			
Type of Sensor	Capacitive		
Measurement Range	5 to 95% RH		
Accuracy	±2% RH		
Resolution	0.1% RH		
General			
<b>Recording Interval</b>	Programmable from 1 minute to 2 hours		
Storage	> 1 million measurements		
Alarm	Yes		
Backlighting Display, Hold, Min & Max	Yes		
Auto Power OFF	Yes (in portable mode only)		
Dimensions/Weight	4.92 x 2.58 x 1.26" (125 x 65.5 x 32mm)/ 6.7oz (190g) with batteries		
Protection	IP40		
Compliance	IEC 61010-1, 50V CAT II – IEC 61326-1		
Power Supply	Alkaline batteries: 2 AA or rechargeable battery connection to 120V 60Hz line/USB to wall adapter		
Communication	Bluetooth (Class I) wireless communication/USB link; the product is then recognized as a USB drive for easy file transfer		
Mounting	Optional padlockable wall mount (padlock is not includ- ed), optional desktop stand and tear drop wall hook		
DataView® Software	Graphic representation or as table of values, data export, real-time mode calculation of the confinement index with selection of presence periods & report generation		





Use DataView® to configure all user selectable functions on Models 1110, 1227, 1246, 1821, 1822, 1823 and 1510

You can view measurements in real-time, download & analyze stored data, and create customizable reports all with DataView<sup>®</sup>.

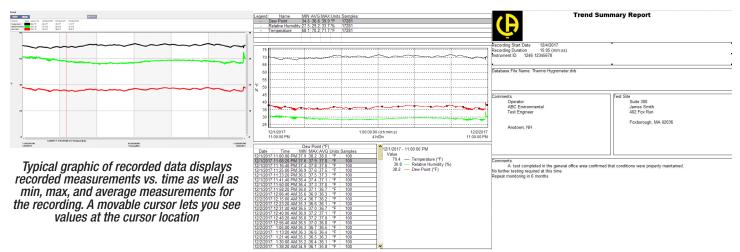
General		Recording
Serial number	123456ABC	Recording status
Model	1246	Session(s)
Firmware version	02.00.12	Idle
Instrument name	Thermo-Hygrometer	Starting date/time
Location		Ending date/time
		Duration
Status		Recording Storage Rate
In overload	No	
Alarm	Disabled	Channel Configuration
Date	12/5/2017	Channel 1
Time	3:30:43 PM	Units:
Battery voltage	4.14 V (Full)	Channel 2
		Units:
Communication		

Typical status screen shows current state of the instrument

on	figure Instrument				
Ger	eral Recording Luxme	eter			
	Session name:				
	Location:				
	Session type Record now Schedule recording				
	Start date:	1/11/2000		Start time:	6:55:27 PM
	End date:	1/11/2000		End time:	7:10:27 PM
	Recording duration:	000:00:15:	00	(D : H : M : S)	Reset date/time
	Sampling period				
	Storage period:	1s 1s	×		
	Memory	2 s 5 s			
		10 s			
	10.91% of the memor 7.10 MBytes of availab	1 min 2 min		total memory capacity.	
		5 min 10 min			
	0.03% of the memory	15 min		recording settings.	

Other screens allow for the selection of measurement units, alarm set points, and other user selectable parameters.

The recording configuration screen provides the ability to assign a name & location to the recording session, set the storage rate, and schedule when recordings will start and stop. It also displays memory usage.



A typical report will include a plot of the data as well as a listing of the measurements.

A report cover sheet provides information about the operator and the test site as well as a comment section for the operator to type in the test results and recomendations



# MODELS CA811 & CA813



# FEATURES

- ► Easy one-hand operation
- Designed to measure a wide range of lighting types (Model CA813)
- ► Removable sensor for remote reading
- Measures in foot-candles (fc) or lux (lx)
- Measures incandescent lighting
- ► Cosine corrected
- Hold function
- Max function (Model CA811)
- Peak function (Model CA813)
- ► CIE photoptic (human eye) response
- ► Lightweight and compact
- Removable protective sensor cover
- Includes rugged, shockproof, protective, and dirt resistant gray cover

#### Products 2121.20 & 2121.21 Include

- Shockproof holster
- 9V battery
- User manual

### Applications

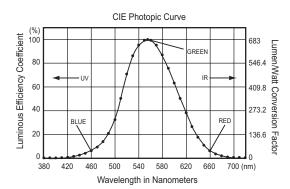
- Testing for OSHA compliance in workplace, cleanroom and industrial settings
- Ambient testing for light-sensitive displays and archives in museums and art galleries

# LIGHTMETER

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

# SPECIFICATIONS

MODELS	CA811	<b>CA813*</b>
	20fc, 200fc, 2000fc, 20kfc	20fc, 200fc, 2000fc, 20kfc
Range	20lx, 200lx, 2000lx, 20klx	201x, 2001x, 20001x, 20k1x, 200k1x
<b>Display Resolution</b>	0.01fc	or 0.01lux
Sensor	Silicon	photodiode
Spectral Response	CIE Phot	coptic Curve
<b>Accuracy</b> 2856K Light Source Common Light Source	±5% of Reading ±10cts ±18% of Reading ±2cts	$\pm 5\%$ of Reading $\pm 10$ cts $\pm 11\%$ of Reading $\pm 2$ cts
Sample Rate	2.5 times per second, nominal	2.5 times per second, nominal
	General	
Display	31/2 digit liquid crystal	display (LCD), 2000-count
<b>Operating Temperature</b>	32° to 122°F (0°	to 50°C), <80% RH
Storage Temperature	,	0°C), 0 to 80% RH without attery
Polarity	Automatic	
Power Source	One 9V Alkaline battery (included)	
Low Battery Indication	Displayed when battery voltage is low	
Dimensions	6.81 x 2.38 x 1.5" (173 x 60.5 x 38mm)	
Weight	Approx. 7.55oz (214g) including battery	Approx. 7.9oz (224g) including battery



\*Note: Model CA813 offers higher sensitivity (200klux) and has a better spectral response to common light sources. Model CA811 is used to measure incandescent lighting.



# SOUND LEVEL METER

# **MODEL CA832**



# FEATURES

► Easy one-hand operation

- Measures sound according to the sensitivity of the human ear
- Max function
- Auxiliary output for recording
- ► Tripod mountable
- ► Lightweight and compact
- Includes rugged, shockproof, protective, and dirt resistant gray cover

#### Product 2121.23 Includes

- Shockproof holster
- Protective foam microphone cap
- Screwdriver
- Male jack connector
- Assembly screw for camera type tripod
- 9V battery
- User manual

### **Applications**

- ► Factories
- Schools and Libraries
- ► Airports
- ► Office environments and studios
- ► Auditoriums
- ► Hospitals



Designed to assess sound ambiences
in accordance with international safety
and quality standards

# **SPECIFICATIONS**

MODEL	CA832	
Measurements		
Measurement Range	37 to 80dB 50 to 100dB 80 to 130dB	
Measurement Rate	2.5 times per second	
Dynamic Range	50db	
Frequency Range	31.5 to 8000Hz	
Accuracy	±1.5dB (ref. 94dB@1kHz)	
Resolution	0.1dB	
Precision	±2.0dB	
Display	2000-count	
Sensor Type	0.5" (13mm) electric (prepolarized) condenser micro- phone True RMS measurement with independent frequency weighting	
Applicable Standard	IEC 651 type 2/ANSI S 1.4 type 2/JIS C 1502	
Auxiliary Output	DC output: $10mV/dB - 50\Omega$ AC output: $1.0Vrms - 600\Omega$	
<b>Frequency Weighting</b>	Curves A and C	
<b>Time Weighting</b>	S (slow)-550ms and F (fast)-55ms	
	General	
Display	31/2 digit liquid crystal display (LCD), 2000-count	
Operating Temperature	32° to 122°F (0° to 50°C), 80% RH without conden- sation	
Storage Temperature	-4° to 140°F (-20° to 60°C), 0 to 80% RH without battery	
Power Source	One 9V Alkaline battery (included)	
Low Battery Indication	Displayed when battery voltage is low	
Dimensions	9.33 x 2.38 x 1.5" (237 x 60.5 x 38mm)	
Weight	8.11oz (230g) including battery	

Tripod mounting screw allows for mounting on a standard tripod stand. (Tripod not included)

# **MODELS CA846**

# THERMO-HYGROMETER

Provides excellent response time to changes in temperature, good repeatability and accurate readings

# **SPECIFICATIONS**

MEASUREMENTS — TEMPERATURE		
Measurement Range	-4° to 140°F (-20° to 60°C)	
<b>Display Resolution</b>	0.1°F (0.1°C)	
Sensor	NTC Temperature Sensor	
Accuracy	-4° to 32°F: ±2°F (-20° to 0°C: ±1°C) 32° to 140°F: ±1°F (0° to 60°C: ±0.5°C)	
MEASURE	MENTS — RELATIVE HUMIDITY	
Measurement Range	0 to 100% RH	
<b>Display Resolution</b>	0.1% RH	
Sensor	Capacitive Humidity Sensor	
Accuracy	±5.0%, 25°C, 10% to 90% RH ±10.0%, 25°C, 0% to 10% RH, 90% to 100% RH	
	GENERAL	
Display	3½ digit liquid crystal display (LCD), 2000-count	
Operating Temperature	32° to 122°F (0° to 50°C), 80% RH	
Storage Temperature	-4° to 140°F (-20° to 60°C), 0 to 80% RH without battery	
Polarity	Automatic	
Power Source	One 9V Alkaline battery (included)	
Low Battery Indication	Displayed when battery voltage is low	
Dimensions	6.81 x 2.38 x 1.5" (173 x 60.5 x 38mm)	
Weight	Approx. 7oz (197g) including battery	

### Product 2121.24 Includes

- Shockproof holster
- 9V battery
- User manual





### FEATURES

- ► Easy one-hand operation
- Measures temperature in °F and °C
- ► Accurate NTC sensor
- ► Quick response RH sensor
- Max and Hold functions
- ► 2000-count backlit LCD
- Lightweight and compact
- Removable protective sensor cover
- Includes rugged, shockproof, protective and dirt resistant gray cover

### **Applications**

- Greenhouses
- HVAC installation and maintenance
- ► Office environments
- Labs
- Environmental studies
- ► Weather monitoring
- ► Food distribution and storage
- Blood banks

# INFRARED THERMOMETER

# **MODEL CA879**



# FEATURES

- ► Easy one-hand operation
- Non-contact infrared sensor
- ► Laser guide for precise aim
- ▶ 12:1 Field of Vision Ratio
- ► Measures temperature in °F and °C
- ► Fixed 0.95 emissivity
- Auto-HOLD function
- 2000-count backlit LCD

#### Product 2121.37 Includes

- Soft carrying case
- 9V battery
- User manual



# Provides precision measurement with its laser target feature

### **SPECIFICATIONS**

ELECTRICAL		
Measuring Range -58° to 1022°F (-50° to 550°C)		
Resolution	0.1°F from -58° to 200°F, 1°F beyond this range 0.1°C from -50° to 200°C, 1°C beyond this range	
Polarity	Automatic (minus only)	
Accuracy	$\begin{array}{l} \pm 1.5\% \text{ of Reading } \pm 4^\circ \text{F from } -4^\circ \text{ to } +1022^\circ \text{F /} \\ \pm 9^\circ \text{F of } -58^\circ \text{ to } -4^\circ \text{F} \\ \pm 1.5\% \text{ of Reading } \pm 2^\circ \text{C from } -20^\circ \text{ to } +550^\circ \text{C /} \\ \pm 5^\circ \text{C of } -50^\circ \text{ to } -20^\circ \text{C} \end{array}$	
Emissivity	Preset at 0.95	
Spectral Response	6 to 14µm	
Response Time 400ms		
Laser Target1mW (670nm type)		
Power Source	One 9V Alkaline battery included (6LR61 or 6LF22)	
MECHANICAL		
Dimensions         9.05 x 3.93 x 2.20" (230 x 100 x 56mm)		
Weight	10.23oz (290g)	
ENVIRONMENTAL		
Operating: Temperature Humidity	32° to 122°F (0° to 50°C) 10 to 90% RH	
Storage: Temperature Humidity	-4° to 140°F (-20° to 60°C) without battery $$<80\%$ RH	
	SAFETY	
Electromagnetic Compatibility	EN 50081-1 Ed. 1992: EN 55022 EN 50082-1 Ed. 1997: EN 55024	

### **Applications**

- Electrical troubleshooting
- Food safety and processing
- ► Automotive repair and maintenance
- ► Marine maintenance and repairs
- ► Test faulty motor winding insulation
- Test overheated high voltage transformers
- Test terminals on circuit breaker panels
- Perform HVAC energy audits



# www.aemc.com

#### **United States & Canada**

Chauvin Arnoux<sup>®</sup>, Inc. d.b.a. AEMC<sup>®</sup> Instruments 200 Foxborough Blvd. Foxborough, MA 02035 USA (508) 698-2115 • Fax (508) 698-2118

Customer Support for placing an order, obtaining price & delivery (800) 343-1391

#### customerservice@aemc.com

Sales & Marketing Department for general sales and marketing information sales@aemc.com marketing@aemc.com

### Repair & Calibration Service

**TEST & MEASUREMENT INSTRUMENTS** 

Volume 17

for information on repair & calibration repair@aemc.com

#### United States & Canada (continued)

Technical & Product Application Support for technical and application support (800) 343-1391

techinfo@aemc.com

Webmaster for information regarding our website www.aemc.com webmaster@aemc.com

#### South America, Central America, Mexico & the Caribbean

VER QUALIT

Chauvin Arnoux<sup>®</sup>, Inc. d.b.a. AEMC<sup>®</sup> Instruments

15 Faraday Drive Dover, NH 03820 USA export@aemc.com

#### Australia & New Zealand

Chauvin Arnoux<sup>®</sup>, Inc. d.b.a. AEMC<sup>®</sup> Instruments

15 Faraday Drive Dover, NH 03820 USA

export@aemc.com

#### All other countries

#### Chauvin Arnoux® SCA

190, rue Championnet 75876 Paris Cedex 18, France Tel 33 1 44 85 45 28 Fax 33 1 46 27 73 89 info@chauvin-arnoux.com www.chauvin-arnoux.com

# Visit our website at www.aemc.com

() AEMC

ie: (800) 343-1391

For All Your Electrical Test & Measurement Instruments

Call the AEMC® Instruments Technical Assistance Hotline for immediate consultation with an applications engineer: (800) 343-1391

: (800) 343-1391

() AEMC

Chauvin Arnoux<sup>®</sup>, Inc. d.b.a AEMC<sup>®</sup> Instruments • 200 Foxborough Blvd. • Foxborough, MA 02035 USA • (800) 343-1391 • (508) 698-2115 • Fax (508) 698-2118 Export Department: (603) 749-6434 (x520) • Fax (603) 742-2346 • E-mail: export@aemc.com

© 2018 Chauvin Arnoux®, Inc. d.b.a. AEMC® Instruments

() AEMC