



CEM DT-859B 5-in 1 Digital Multifunctional Environment Meter (70mm Vane) (Sound, Light, Air Flow, Humidity, and Temperature)



SKU: CEMDT859BBK
Manufacture warranty period: 12 months
Country of Origin: China

Introduction:

The digital Multifunction Environment Meter has been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter Temperature Meter and CFM/CMM Thermo-Anemometer. It is an ideal Multifunction Environment Meter Instrument with scores of practical applications for professional and home use.

- The Sound level function can be used to measure noise in factories, schools, offices, home, etc, checking acoustics of studios, auditoriums and hi-fi installations.
- The Light function is used to measure luminance in the field. It is fully cosine corrected for the angular incidence of light. The light sensitive component used in the meter is a very stable, long, life silicon diode.
- The Humidity/Temperature uses a humidity/semiconductor sensor and K type thermocouple.
- CFM/CMM Thermo-Anemometer is suitable for use in a wide variety of applications, including plant maintenance operations, environmental analysis, fume hood testing, and HVAC system assessment

Feature:

- Larger LCD display with backlight.
- Relative time clock on MAX MIN and AVG provides a time reference for measurement.
- Display Sound, Light, Type K Temperature plus Humidity & Temperature simultaneously.
- USB interface, USB to UART Bridge Controller.
- Low battery indication, and Auto Power Off mode (Sleep mode) increases.



Specifications:

- **Type K Temperature**
 - Range: -200°C~1372°C / -328°F~2501°F
 - Resolution: 0.1°C / 0.1°F
 - Accuracy:
 - Above -100°C (-148°F), $\pm[0.15\%rgd+1^{\circ}C(1.8^{\circ}F)]$
 - Below -100°C (-148°F), $\pm[0.5\%rgd+2^{\circ}C(3.6^{\circ}F)]$
- **Air Temperature**
 - Range: -30°C~100°C / -22°F~199°F
 - Resolution: 0.1°C / 0.1°F
 - Accuracy: $\pm 1^{\circ}C / \pm 1.8^{\circ}F$
- **Humidity**
 - Range: 0%~100%RH
 - Resolution: 0.1%RH
 - Accuracy: $\pm 3.5\%RH$
- **Sound Level**
 - Range: 35dB~130dB
 - Resolution: 0.1dB
 - Accuracy: $\pm 3.5dB$
- **Light**
 - Range: 20,200,2000,20000 (2000 x 10 Lux)
 - Resolution: 0.01, 0.1, 1, 10Lux
 - Accuracy: $\pm(5.0\%+10d)$
- **Anemometer**
 - Range: 0.40-30.00 m/s
 - Resolution: 0.01 m/s
 - Accuracy: $\pm 3\% \pm 0.20$ m/s
 - Range: 80-5900 ft/min
 - Resolution: 1 ft/min
 - Accuracy: $\pm 3\% \pm 40$ ft/min
 - Range: 1.4-108.0 km/h
 - Resolution: 1 ft/min
 - Accuracy: $\pm 3\% \pm 0.8$ km/h
 - Range: 0.9-67.0 MPH
 - Resolution: 0.1 MPH
 - Accuracy: $\pm 3\% \pm 0.4$ MPH

- Range: 0.8-58.0 Knots
 - Resolution: 0.1 knots
 - Accuracy: $\pm 3\% \pm 0.4$ knots
- **Air Flow**
 - Range: 0-999,900 CFM
 - Resolution: 0.001 to 100 CFM
 - Range: 0-999,900 CMM
 - Resolution: 0.001 to 100 CMM
- Accuracy is function of velocity and area
- Vane diameter: 70mm
- Meter size exclude external probe:
 - Size: 248mm x 65mm x 45mm
 - Weight: 365g

Package Box Dimension:

- Size: 52 x 39 x 15 cm
- Weight: 3.3 KG







DT-859B

File About

COM4

Data show

TEMP 24.8 °C

Sound 48.5 dBA

Fast

Data curve

DT-859B

Datasheets

NO.	TEMP	RH	TYPE K	LIGHT	SOUND	VEL	FLOW	Time
70	24.9 °C	53.3 %RH	---- °C	288.4 Lux	53 dBA	2.38 m/s	54.34 CMM	9/6/20..
71	24.9 °C	53.7 %RH	---- °C	302 Lux	53.7 dBA	2.65 m/s	60.53 CMM	9/6/20..
72	24.9 °C	53.7 %RH	---- °C	302 Lux	53.7 dBA	2.65 m/s	60.53 CMM	9/6/20..
73	24.9 °C	53.6 %RH	---- °C	331.3 Lux	55.8 dBA	2.77 m/s	63.3 CMM	9/6/20..
74	24.9 °C	53.6 %RH	---- °C	331.3 Lux	55.8 dBA	2.77 m/s	63.3 CMM	9/6/20..
75	24.9 °C	53.6 %RH	---- °C	331.3 Lux	55.8 dBA	2.77 m/s	63.3 CMM	9/6/20..
76	24.9 °C	53.5 %RH	---- °C	350.6 Lux	52.9 dBA	3.05 m/s	69.7 CMM	9/6/20..
77	24.9 °C	53.5 %RH	---- °C	350.6 Lux	52.9 dBA	3.05 m/s	69.7 CMM	9/6/20..
78	24.9 °C	53.5 %RH	---- °C	330 Lux	53.8 dBA	2.85 m/s	65.01 CMM	9/6/20..
79	24.9 °C	53.5 %RH	---- °C	330 Lux	53.8 dBA	2.85 m/s	65.01 CMM	9/6/20..
80	24.9 °C	53.5 %RH	---- °C	330 Lux	53.8 dBA	2.85 m/s	65.01 CMM	9/6/20..
81	25 °C	53.2 %RH	---- °C	315.2 Lux	55.2 dBA	3.01 m/s	68.63 CMM	9/6/20..
82	25 °C	53.2 %RH	---- °C	315.2 Lux	55.2 dBA	3.01 m/s	68.63 CMM	9/6/20..
83	25 °C	53.2 %RH	---- °C	499.1 Lux	53.4 dBA	2.8 m/s	63.83 CMM	9/6/20..
84	25 °C	53.2 %RH	---- °C	499.1 Lux	53.4 dBA	2.8 m/s	63.83 CMM	9/6/20..
85	25 °C	53.2 %RH	---- °C	499.1 Lux	53.4 dBA	2.8 m/s	63.83 CMM	9/6/20..
86	25 °C	53.1 %RH	---- °C	499.4 Lux	57.3 dBA	2.66 m/s	60.63 CMM	9/6/20..
87	25 °C	53.1 %RH	---- °C	499.4 Lux	57.3 dBA	2.66 m/s	60.63 CMM	9/6/20..
88	25 °C	53.1 %RH	---- °C	518.3 Lux	58.4 dBA	2.47 m/s	56.37 CMM	9/6/20..
89	25 °C	53.1 %RH	---- °C	518.3 Lux	58.4 dBA	2.47 m/s	56.37 CMM	9/6/20..
90	25 °C	53.1 %RH	---- °C	518.3 Lux	58.4 dBA	2.47 m/s	56.37 CMM	9/6/20..
91	25 °C	53.2 %RH	---- °C	521.1 Lux	56.1 dBA	1.53 m/s	35.05 CMM	9/6/20..
92	25 °C	53.2 %RH	---- °C	521.1 Lux	56.1 dBA	1.53 m/s	35.05 CMM	9/6/20..
93	24.9 °C	53 %RH	---- °C	497.5 Lux	45.9 dBA	1.25 m/s	28.65 CMM	9/6/20..
94	24.9 °C	53 %RH	---- °C	497.5 Lux	45.9 dBA	1.25 m/s	28.65 CMM	9/6/20..
95	24.9 °C	53 %RH	---- °C	497.5 Lux	45.9 dBA	1.25 m/s	28.65 CMM	9/6/20..
96	24.8 °C	53 %RH	---- °C	---- Lux	57.2 dBA	0.7 m/s	16.17 CMM	9/6/20..
97	24.8 °C	53 %RH	---- °C	---- Lux	57.2 dBA	0.7 m/s	16.17 CMM	9/6/20..
98	24.8 °C	53.3 %RH	---- °C	462.3 Lux	46.2 dBA	0.48 m/s	11.02 CMM	9/6/20..

Device status: Connected

Time: 9/6/2021 4:04:46 PM