



CEM DT-859B

5-in-1 digital Multifunction Environment Meter

(Sound, Light, Air Flow-70mm Vane, Humidity, and Temperature)
with PC interface software

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

Features

- 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), ±[0.15%rgd+1°C(1.8°F)] Below -100°C (-148°F), ±[0.5%rgd+2°C(3.6°F)]
Air Temperature	
Range:	-30°C~100°C / -22°F~199°F
Resolution:	0.1°C / 0.1°F
Accuracy:	±1°C / ±1.8°F
Humidity	
Range:	0%~100%RH
Resolution:	0.1%RH
Accuracy:	±3.5%RH
Sound Level	
Range:	35dB~130dB
Resolution:	0.1dB
Accuracy:	±3.5dB
Light	
Range:	20,200,2000,20000 (2000 x 10 Lux)
Resolution:	0.01, 0.1, 1, 10Lux
Accuracy:	±(5.0%+10d)
Anemometer	
Range:	0.40-30.00 m/s Resolution: 0.01 m/s Accuracy: ±3% ±0.20 m/s
Range:	80-5900 ft/min Resolution: 1 ft/min Accuracy: ±3% ±40 ft/min
Range:	1.4-108.0 km/h Resolution: 1 ft/min Accuracy: ±3% ±0.8 km/h
Range:	0.9-67.0 MPH Resolution: 0.1 MPH Accuracy: ±3% ±0.4 MPH
Range:	0.8-58.0 Knots Resolution: 0.1 knots Accuracy: ±3% ±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 includes:
1 x DT-859B meter w/Sound probe
1 x 70mm Vane probe
1 x Light (Lux) probe
1 x Humidity Proe
1 x K-Type Temperature probe
1 x User Manual
1 x 9V Battery
1 x CD Software
1 x USB Cable (1m)
1 x Hard carrying case





-Display Elements

1. Temperature (Humidity Probe), K Type Temperature and Air Velocity Modes Are Active In Primary Display
2. Area Indication
3. Light, Sound, Air Flow and Humidity Modes Are Active In Secondary Display
4. The Secondary Display
5. Sound of Fast or Slow Mode
6. Data Hold Indicator
7. REC, MAX, MIN and AVG Indicators.
8. Units of Sound (dBA / dBC) in Secondary Display
9. Units of Light (LUX / FC) in Secondary Display
10. Type K Temperature Offset Option, OFFSET Display.
11. Entering or Exiting Setup Mode
12. Multiplier (×10 or ×100)
13. Units of Flow (CFM/CMM) in Secondary Display
14. Units of Humidity in Secondary Display
15. The Indication of Meter Communicating To PC
16. Units of Area
17. Units of velocity
18. Multiplier (×10)
19. Units of Temperature
20. Low Battery Indicator
21. Auto Power off Mode Indicators
22. The Primary Display



