

**CEM DT-8880**  
**Hot Wire Anemometer with USB interface**



**Features:**

- Thermal anemometer, available for very low air velocity measurement.
- Slim probe, ideal for grilles & diffusers.
- Combination of hot wire and standard thermistor, deliver rapid and precise measurements
- Records maximum/minimum readings with recall & data hold.
- Microprocessor circuit assures maximum possible accuracy, provides special functions and features.
- Super large LCD display with backlight, reading the air velocity & temp. at the same time.
- Data Hold.
- Power supply by 9V Battery.
- The portable anemometer provides fast, accurate readings, with digital readability
- Multi-functions for air flow measurement: m/s, km/h, ft/min, MPH, Knots & built in temperature °C / °F
- Thermistor sensor for Temperature measurement, fast response time.
- Probe length for shortest 0.32m, 1.15m for the longest elongation. Line Length is 1.75m
- Applications: Environmental testing, Air conveyors, Flow hoods, Clean rooms, Air velocity, Air balancing, Fans/motors/blowers, Furnace velocity, Refrigerated case and Paint spray booths.



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## General Specifications:

- Display: 46.7 mm x 60mm Larger LCD display. (Dual function meter's display.)
- Data Hold function.
- Memory: Maximum and Minimum with recall.
- Sampling: Approx. 0.8 sec
- Operating Temperature: 0°C to 50°C (32°F to 122°F)
- Operating Humidity: less than 80% RH
- Power Supply: 9V Battery
- Power Current: Approx. DC 60-90mA

## Dimension:

- Meter Size (H x W x D): 198mm x 78mm x 51mm
- Weight: 323g
- Probe Length: 30mm to 100mm long
- Probe Cable: 170mm long.

## Electrical Specifications:

### Air Velocity

- m/s (meter per second)
  - Range: 0.1~25.0m/s
  - Resolution: 0.01m/s
  - Accuracy:  $\pm 5\% \pm 0.1\text{m/s}$
- km/h (kilometers per hour)
  - Range: 0.3~90.0km/h
  - Resolution: 0.1km/h
  - Accuracy:  $\pm 5\% \pm 0.1\text{km/h}$

- ft/min (feet per minute)
  - Range: 20~492ft/min
  - Resolution: 1ft/min
  - Accuracy:  $\pm 5\% \pm 1\text{ft/min}$
- MPH (miles per hour)
  - Range: 0.2~55.8MPH
  - Resolution: 0.1MPH
  - Accuracy:  $\pm 5\% \pm 0.1\text{MPH}$
- Knots (nautical miles per hour)
  - Range: 0.2~48.5knots
  - Resolution: 0.1knots
  - Accuracy:  $\pm 5\% \pm 0.1\text{knots}$

### Air Temperature

- Range: 0°C to 50°C / 32°F to 122°F
- Resolution: 0.1°C/0.1°F
- Accuracy: 1°C /1.8°F

## Package Contents:

- Hot Wire Anemometer with probe
- User Manual
- CD Software
- USB Cable
- Power Supply
- Carrying Case



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Data export to excel.

NO.	DATE	TIME	VELOCITY	TEMPERA	FLOW(CM	AREA(m2)
1	23-Mar-18	11:10:07 AM	0.4	21.7	266.64	11.11
2	23-Mar-18	11:10:08 AM	0.395	21.7	259.973	11.11
3	23-Mar-18	11:10:09 AM	0.08	21.7	53.327	11.11
4	23-Mar-18	11:10:10 AM	0.069	21.7	39.995	11.11
5	23-Mar-18	11:10:11 AM	0.224	21.7	146.652	11.11
6	23-Mar-18	11:10:12 AM	0.926	21.7	613.272	11.11
7	23-Mar-18	11:10:13 AM	0.355	21.6	233.309	11.11
8	23-Mar-18	11:10:14 AM	0.347	21.6	226.643	11.11
9	23-Mar-18	11:10:15 AM	0.421	21.6	279.972	11.11
10	23-Mar-18	11:10:16 AM	0.605	21.6	399.959	11.11
11	23-Mar-18	11:10:17 AM	1.092	21.6	726.593	11.11
12	23-Mar-18	11:10:18 AM	0.649	21.5	426.623	11.11
13	23-Mar-18	11:10:19 AM	0.649	21.5	426.623	11.11
14	23-Mar-18	11:10:20 AM	0.477	21.5	313.302	11.11
15	23-Mar-18	11:10:21 AM	0.455	21.5	299.97	11.11
16	23-Mar-18	11:10:22 AM	0.313	21.5	206.646	11.11
17	23-Mar-18	11:10:23 AM	0.695	21.5	459.954	11.11
18	23-Mar-18	11:10:24 AM	0.69	21.4	459.954	11.11
19	23-Mar-18	11:10:25 AM	0.392	21.3	259.973	11.11
20	23-Mar-18	11:10:26 AM	0.288	21.3	186.647	11.11
21	23-Mar-18	11:10:27 AM	0.134	21.3	86.657	11.11
22	23-Mar-18	11:10:28 AM	0.123	21.3	79.991	11.11
23	23-Mar-18	11:10:29 AM	0.112	21.4	73.326	11.11
24	23-Mar-18	11:10:30 AM	0.121	21.4	79.991	11.11
25	23-Mar-18	11:10:31 AM	0.077	21.4	46.661	11.11
26	23-Mar-18	11:10:32 AM	0.213	21.4	139.986	11.11
27	23-Mar-18	11:10:33 AM	0.242	21.4	159.983	11.11
28	23-Mar-18	11:10:34 AM	0.251	21.4	166.65	11.11
29	23-Mar-18	11:10:35 AM	0.225	21.4	146.652	11.11
30	23-Mar-18	11:10:36 AM	0.223	21.4	146.652	11.11
31	23-Mar-18	11:10:37 AM	0.212	21.4	139.986	11.11
32	23-Mar-18	11:10:38 AM	0.189	21.4	119.987	11.11
33	23-Mar-18	11:10:39 AM	0.166	21.4	106.655	11.11
34	23-Mar-18	11:10:40 AM	0.132	21.4	86.657	11.11
35	23-Mar-18	11:10:41 AM	0.068	21.4	39.995	11.11
36	23-Mar-18	11:10:42 AM	0.174	21.4	113.321	11.11
37	23-Mar-18	11:10:43 AM	0.286	21.4	186.647	11.11
38	23-Mar-18	11:10:44 AM	0.33	21.4	219.977	11.11
39	23-Mar-18	11:10:45 AM	0.141	21.4	93.323	11.11



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