

## Digital Psychrometer

### *Designed for in-duct measurement*



#### Features

- Large-digit back-lit display
- Designed for in-duct measurement (4" x 3/8" probe dimensions)
- Magnetic mount for hands-free use
- Probe cover functions as an extension for hard to reach areas

#### Functions

- Measures temperature and relative humidity
- Calculates Wet Bulb, Dew Point, Enthalpy
- Min / Max and Data Hold

#### Specifications

- Temperature Range: -4 to 122°F (-20 to 50°C)
- RH% Range: 0 to 99.9% RH%
- Wet Bulb: 5 to 121.8°F (-15 to 49.9°C)
- Dew Point: -4 to 121.8°F (-20 to 49.9°C)
- Enthalpy 0 to 125 BTU/Lb (0 to 292 KJ/KG)

#### Accuracy

- Temperature  $\pm 1.0^{\circ}\text{F}(\pm 0.6^{\circ}\text{C})$
- RH%  $\pm 3\%$  at 77°F (25°C), 10-90% RH
- Response Time 60 seconds typical for stable reading



- Magnetic mount



- In-duct measurement



- Probe cover used as an extension



- Pocket type

The DTH35 Digital Psychrometer measures temperature, relative humidity, and calculates wet bulb, dew point, and enthalpy of moist air (air with humidity). The housing design is useful for in-duct measurement, as well as ambient or vent outlet applications. A large, easy to read display, and built in magnet improves ease of use.

## Includes



- (2) Batteries (CR2032)
- Manual

## Specifications

| Item                                  | Measure | Tair  | RH   | WBT  | DP   | Enthalpy   |
|---------------------------------------|---------|---|--|--|--|--|
| <b>Range</b>                          |         | -4.0 ~ 122.0°F<br>(-20.0 ~ 50.0°C)  | 0.1% ~ 99.9%                                     | 5.0 ~ 121.8°F<br>(-15.0 ~ 49.9°C)                                    | -4.0 ~ 121.8°F<br>(-20.0 ~ 49.9°C)   | -1.0 ~ 125BTU/LB<br>(-2.2 ~ 292KJ/KG)  |
| <b>Resolution</b>                     |         | 0.1°F<br>(0.1°C)  | 0.1%   | 0.1°F<br>(0.1°C)   | 0.1°F<br>(0.1°C)   | 0.1BTU/LB or KJ/<br>KG(measured value<br><100)<br>1 BTU/LB or KJ/<br>KG(Other range) |
| <b>Accuracy</b>                       |         | ±1°F (±0.6°C)<br>(32 ~ 122°F (0 ~ 50°C))<br>±2°F (±1.2°C)<br>(Others)                                 | ±3.0%<br>(10 ~ 90% @ 77°F (25°C))<br>±5% (other) | ±2°F (±1.2°C)<br>(RH: 20 ~ 90%)<br>±3.8°F (±2.1°C)<br>(RH: 10 ~ 20%) | ±1.8°F (±1.0°C)<br>40 ~ 90 %<br>±3.6°F (±2.0°C)<br>20 ~ 40 %<br>±7.2°F (±4.0°C)<br>10 ~ 20 % |  |
| <b>Max/Min function</b>               |         | YES   |  |  |  |  |
| <b>Backlight</b>                      |         | Press any key to activate the blue backlight for 10 seconds   |  |  |  |  |
| <b>Auto power off</b>                 |         | 20 minutes<br>("ON/OFF" + "HOLD" > 2 seconds to power meter on and disable "Auto power off" function) |  |  |  |  |
| <b>Low battery</b>                    |         | Low Voltage indicator   |  |  |  |  |
| <b>RH Calibration</b>                 |         | 2 points calibration (32.8% & 75.3%)  |  |  |  |  |
| <b>Battery life<br/>(2pcs CR2032)</b> |         | >110 Hours without backlight  |  |  |  |  |

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