

HM34 Pocket Size Relative Humidity Meter



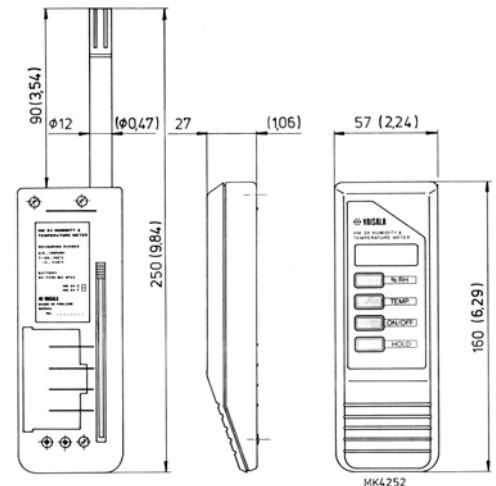
The Vaisala HUMICAP® Hand-Held Humidity and Temperature Meter HM34 provides accurate spot checks of humidity and temperature.

Features/Benefits

- Ideal for spot checking humidity levels
- Measurement range 0...100 %RH
- Fast response with $\pm 2\%$ accuracy
- Temperature measurement range $-20...+60\text{ }^{\circ}\text{C}$ ($-4...+140\text{ }^{\circ}\text{F}$)
- Lightweight, pocket-sized
- Incorporates Vaisala HUMICAP® Sensor that provides high accuracy, excellent long-term stability, negligible hysteresis, and insensitivity to dust and most chemicals
- Extendable probe
- Automatic POWER-OFF
- Available in either $^{\circ}\text{F}$ or $^{\circ}\text{C}$
- NIST traceable (certificate included)
- Each unit comes with a 9V battery, attached probe, $0.2\text{ }\mu\text{m}$ protective membrane filter and a carrying case

Dimensions

Dimensions in mm (inches).



The Vaisala HUMICAP® Hand-Held Humidity and Temperature Meter HM34 provides a fast and convenient way to accurately spot-check relative humidity and temperature.

Fast and easy-to-use

In measurement mode, the extendable probe just slides out. Normally, measurement takes only a few seconds. The HM34 meter includes a HOLD button which allows the user to retain an RH or T measurement until it has been noted or recorded.

If no buttons are pressed for three minutes, the unit automatically switches itself off. This automatic POWER-OFF function prevents the possibility of accidental discharge of the HM34's battery.

After the measurement is completed, the probe is slid back into the meter casing. Between spot checks, the meter is normally stored in its carrying case.

Technical Data

Relative humidity

| | |
|------------------------|--|
| Measurement range | 0... 100 %RH |
| Accuracy | $\pm 2\%$ (0... 90 %RH) $\pm 3\%$ (90...100 %RH) |
| Resolution | 0.1 %RH |
| Temperature dependence | $\pm 0.04\text{ }^{\circ}\text{RH}/^{\circ}\text{C}$ |
| Sensor type | HUMICAP®H thin film capacitive sensor |
| Response time (90%) | 15 s with membrane filter 5 s with plastic grid |

Temperature

| | |
|------------------------|---|
| Range | $-20\text{ to }+60\text{ }^{\circ}\text{C}$ ($-4\text{ to }+140\text{ }^{\circ}\text{F}$) |
| Accuracy | $\pm 0.3\text{ }^{\circ}\text{C}$ ($\pm 0.54\text{ }^{\circ}\text{F}$) |
| Resolution | $0.1\text{ }^{\circ}\text{C}$ ($0.1\text{ }^{\circ}\text{F}$) |
| Temperature dependence | $\pm 0.02\text{ }^{\circ}\text{C}/^{\circ}\text{C}$ ($\pm 0.02\text{ }^{\circ}\text{F}/^{\circ}\text{F}$) |
| Sensor | Pt 100 IEC 751 1/3 Class B |

General

| | |
|-------------------------------|---|
| Display | 3 1/2 digit LCD |
| Hold function | Push-button hold of displayed value |
| Power supply | 9 V battery |
| Battery operation time | 50 h |
| Automatic POWER OFF | after 3 minutes, unless HOLD is activated |
| Operating temperature range | $-20...+60\text{ }^{\circ}\text{C}$ ($-4...+140\text{ }^{\circ}\text{F}$) |
| Housing | ABC plastic |
| Sensor protection | standard optional |
| Weight | plastic grid, part no. 6221 sintered filter 133 mm, part no. 0195 180 g with battery |
| Ordering Information | HM34C HM34F |
| Electromagnetic compatibility | with $^{\circ}\text{C}$ temperature reading with $^{\circ}\text{F}$ temperature reading Complies with EMC standard EN61326-1, Portable Equipment |