

REAL-TIME ACCLIMATION SCREEN

Phoenix HM-40 - Meter

PRECISION THERMOHYGROMETER

The HM40 ThermoHygrometer is Vaisala's newest technology meter with multiple displayed values and real-time acclimation screen for accurate readings. This instrument is the advanced version of the Phoenix HMI-41, which has been widely used in the restoration industry and has established a reputation for accuracy and dependability. Manufactured by the Vaisala Company in Helsinki, Finland, the Phoenix HM40 meter will provide years of trouble-free service. The HM40 displays temperature, RH%, dew point, wet bulb temperature, grains per pound, and BTUs per pound. The Phoenix HM40 meter incorporates Vaisala's trusted HUMICAP® 180R Sensor, which is accurate, durable and resistant to dust and most chemical contaminants. This compact, portable, easy-to-use humidity meter is the ideal spot-checking tool for fast, accurate and reliable measurements anywhere, anytime. Accurately analyzing the conditions in the affected space is crucial to successful drying. The precision of the HM40 is a must in any restorer's toolbox.

FEATURES

- Humidity measurement range
0 ... 100 %RH
- Operating temperature range
14 °F to 140 °F
- Incorporates the proven Vaisala
HUMICAP® 180R Sensor
- The interchangeable measurement probe
HMP113 can be user calibrated
- Graphical display indicates when
measurement has stabilized
- Hold-button to freeze the screen and save
the reading
- Multilingual user interface with 10
languages (EN, DE, FR, JA, ZH, PT, ES, RU,
FI, SV)



1.800.533.7533

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SPECIFICATIONS

PART NUMBER

4034285 (Without Probe)

4034345 (With Probe)

RELATIVE HUMIDITY

Range: 0 to 100% RH

Accuracy: $\pm 1.5\%$ (0 to 90% RH)

$\pm 2.5\%$ (90 to 100% RH)

Sensor: HUMICAP® 180R

TEMPERATURE

Range: 14 to +140°F

Accuracy: .36°F (32°F to 104°F)

.72°F (14°F to 32°F and 104°F to 140°F)

Sensor: PT 1000 RDT Class F0.1 IEC 60751

GENERAL

Power-up time: <3 seconds

Batteries: 2 x AA sized, 1.5V

Calculated parameters: Td, Tw, a, x, h

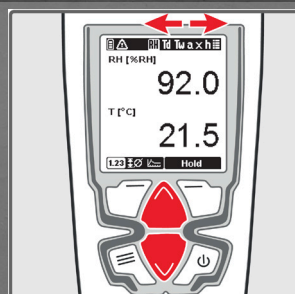
Display: LCD (140 x 160 pixels)

Operation time: typical 100 hours (without backlight)

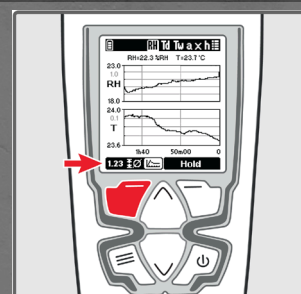
OPERATING RANGE

Operating temperature range: 14°F to 140°F

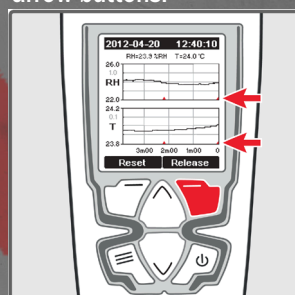
Storage temperature range: -22°F to 158°F



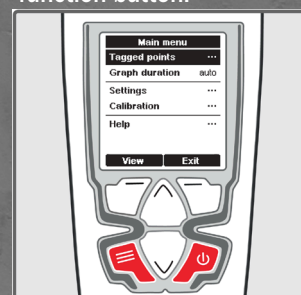
Change parameter with arrow buttons.



Change view with left function button.



Hold screen and tag point with right function button.



Menu and power buttons.

WARNINGS

- Do not drop.
- Do not open filter.
- Keep out of extreme temperatures (14°F - 140°F is the recommended operating range)



MEASURED PARAMETERS

RH %	Relative Humidity
Td °C, °F	Dewpoint
Tw °C, °F	Wet Bulb Temperature
a g/m³, gr/ft³	Absolute Humidity
x g/kg, gr/lb	Mixing Ratio (Grains Per Pound)
h kJ/kg, btu/lb	Enthalpy
T °C, °F	Temperature



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