

# 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)



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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

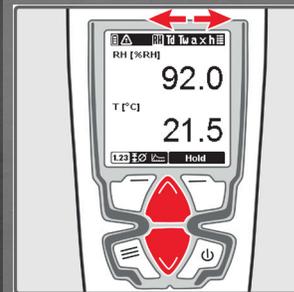
Range: 14 to +140 °F  
Accuracy: .36 °F (32 °F to 104 °F)  
.72 °F (14 °F to 32 °F and 104 °F to 140 °F)  
Sensor: PT 1000 RDT Class F0.1 IEC 60751

#### GENERAL

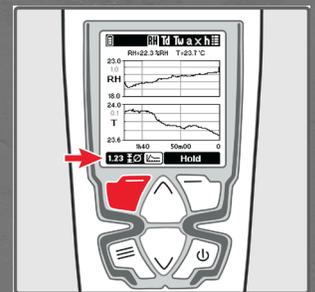
Power-up time: <3 seconds  
Batteries: 2 x AA sized, 1.5V  
Calculated parameters: Td, Tw, a, x, h  
Display: LCD (140 x 160 pixels)  
Operation time: typical 100 hours (without backlight)

#### OPERATING RANGE

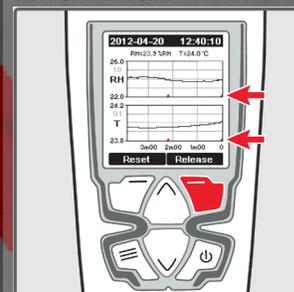
Operating temperature range: 14 °F to 140 °F  
Storage temperature range: -22 °F to 158 °F



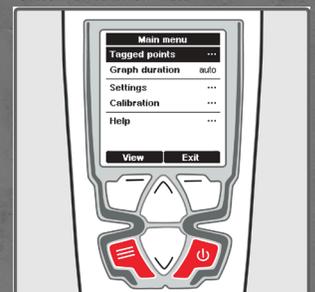
Change parameter with arrow buttons.



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/m <sup>3</sup> , gr/ft <sup>3</sup>	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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