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Rotronic HygroPalm HP32 Handheld Relative Humidity & Temperature Meter

Product Images



Short Description

HygroPalm handheld instruments are universally recognised as some of the very best available in terms of accuracy, reliability and function.

Description

The HygroPalm HP32 is a versatile handheld instrument compatible with standard, high temperature and insertion probes, it is able to perform spot measurements and logging of relative humidity, temperature and psychrometric parameters. Simply connect it to the probe input on the top.

Advantages of the HygroPalm HP32 Handheld Device

- Relative humidity, temperature and psychrometric calculations
- Graphical display for graphs and up to 4 values
- Settable visual and audible alarms for every value
- 64,000 data points memory for time programmable interval logging
- Long lasting battery (up to 48 hours when logging every 30 seconds).

Applications

- Field inspection and spot checks in HVAC
- Building Management Systems
- Agriculture and Food industry
- Pharmaceutical Industry

The HygroPalm HP32 handheld instrument is compatible with

- All HC2 and HC2A probes
- HW4 Software

Probe options for the HP32

Standard and High Precision probes Accuracy (Standard): ± 0.8 %RH, ± 0.1 K at 10...30 °C Accuracy (High Precision): ± 0.5 %RH at 10...90 %RH, ± 0.1 K at 10...30 °C

High temperature handheld probe Accuracy: ± 0.8 %RH, ± 0.2 K at 10...30 °C Application range: -100...200 °C, 0...100 %RH Long-term stability: < 1 %RH / year

Insertion probes Accuracy: $\pm 0.8/1.5$ %RH, $\pm 0.1/0.3$ K at 10...30 °C Application range: -40...85 °C/0...100 %RH Long-term stability: < 1 %RH / year

Explanation

ACCURACY	Depends on the probe
PARAMETERS	Relative humidity and temperature
PROBES	All HC2A and HC2 probes
DEVICE TYPE	Handheld device
FUNCTIONS	Spot measurements Time programmable interval logging MIN / MAX / AVG
RANGE OF APPLICATION	-10...60°C / 0...100%RH (non-cond.)
BATTERY	Lithium Polymer, 3,7V, 1000 mAh (integrated) 48h – Logging every 30s, screen off 10h – Screen always on
PSYCHROMETRIC CALCULATIONS	Dew / Frost point (Dp /Fp) Wet bulb temperature (Tw) Enthalpy (H) Vapor concentration (Dv) Specific humidity (Q) Mixing ratio by weight (R) Vapor pressure (E) Saturation vapor pressure (Ew) Saturation vapor density (SVD)
CALCULATION METHOD	WMO Standard
DISPLAY REFRESH RATE	1 s (typical)
LOGGING INTERVAL	1 s...24 h
STORAGE CAPACITY	8x8000 data points
COMMUNICATION INTERFACES	Micro USB
HOUSING	ABS, TPR
IP PROTECTION RATING	IP65
STORAGE AND TRANSPORT CONDITIONS	-10...45 °C / 10...90 %rF
DIMENSIONS	160 x 63 x 30 mm
WEIGHT	185 g

Contents

- HygroPalm HP32 (without probe)
- Soft Case
- Micro-USB Cable (computer connection and battery charging)
- HW4 LITE license key (3 instruments connected max)

Ideal For

Professional

Brand

Rotronic

Typical applications

Building Monitoring, Building Performance, Environmental (Indoor), Food Safety, HVAC, Pharmaceutical

Measurements

Dew Point, Humidity, Temperature