HygroPalm HP32





HC2A probe

Benefits

- Relative humidity, temperature and psychrometric calculations
- Graphical display for graphs and up to 4 values
- Freely settable visual and audible alarms on every value
- 64,000 data points memory with programmable logging interval
- Long-life rechargeable battery (up to 48 hours at a logging interval of 30 seconds)

Applications

- Field inspection and spot checks in HVAC
- Building management systems
- Agriculture and food industry
- Pharmaceutical industry

TECHNICAL INFORMATION

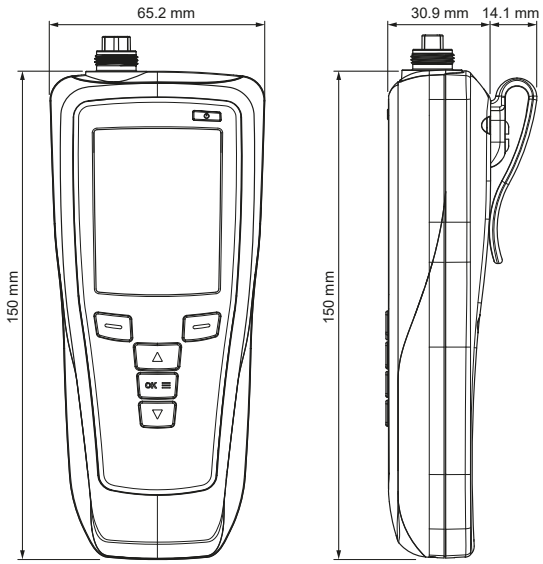
Compatible with

- All HC2 and HC2A probes
- HW4 software › V3.9

Package content

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

Drawing



General specifications	
Device type	Handheld device (%RH / °C)
Compatible probes	All HC2A and HC2 probes
Application range	-10...60 °C | 0...100 %RH (non-cond.)
Storage range	-10...45 °C | 10...90 %RH
Probe application range	Depends on the probe
Accuracy	Depends on the probe
Functions	Spot measurements Programmable logging interval MIN / MAX / AVG
Logging interval	1 s...24 h
Memory capacity	8 x 8000 data points
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)
Integrated battery	Lithium polymer, 3.7 V, 1000 mAh 48 h – Logging every 30 s, screen off 10 h – Screen always on
PC interface	Micro-USB port, HW4 compatible › V3.9
Housing / Mechanics	
Enclosure material	ABS, TPR
IP protection class	IP65
Dimensions	160 x 63 x 30 mm
Weight	185 g

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POSSIBLE PROBES 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
Application range:	-50...100 °C, 0...100 %RH
Long-term stability:	‹1 %RH / year
Order code:	HC2A-S (Standard) HC2A-SH (High Precision)



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
Cable length:	2 m
Order code:	HC2-HK25



Insertion probes

Accuracy:	±0.8/1.5 %RH, ±0.1/0.3 K at 10...30 °C
Application range:	-40...85 °C / 0...100 %RH
Long-term stability:	‹ 1 %RH / year
Cable length:	2 m
Order code:	HC2-P05, HC2-P28, HC2-P50



HP32 PRODUCT SETS

HP32-S-SET

Consisting of:
- 1x HP32 handheld instrument
- 1x HC2A-S Standard probe

Order code: HP32-S-SET



HP32-SET

Consisting of:
- 1x HP32 handheld instrument
- 1x HC2A-S Standard probe
- 1x E2-02A extension cable 2 m
- 1x ER-15 calibration device
- 1x EA35-SCS humidity standard SCS

Order code: HP32-SET



HP32-A-REF-SET

Consisting of:
- 1x HP32 handheld instrument
- 1x HC2A-S Standard probe with 1x SCS-1T-3H
- 1x E2-02A extension cable 2 m

Order code: HP32-A-REF-SET



POSSIBLE SOFTWARE FOR THE HP32

HW4 LITE

- Free license included with the device
- Visualization, data export and evaluation of measured values
- **A maximum of 3 instruments can be connected simultaneously**

Order code: HW4-LITE

HW4-STANDARD

- Single-user application license
- Visualization of multiple loggers and measured values
- Monitoring (one instrument at a time), data logger programming, data retrieval, scaling, instrument settings, alarm function, service and configuration tool for Rotronic instruments, time synchronization, adjustment and calibration of Rotronic probes
- No password protection

Order code: HW4-E-V3

HW4-PROFESSIONAL (HW4-P-V3)

- Network applications in the pharmaceutical and food industries
- All functions of the Standard edition
- Multiple-user applications license (same site)
- Fulfils the requirements for electronic data records and signatures (FDA21 CFR Part 11, Annex 11)
- Grouping of devices, graph overlays, printing of reports

Order code: HW4-P-V3

An up-to-date overview of our extensive range of accessories such as probes, cables, filters, sets, software and calibration equipment compatible with the HygroPalm HP32 is available on our web site: **www.rotronic.com**.