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Handheld device

HYGROPALM HP31/HP32



BENEFITS

- Measures relative humidity and temperature and perform psychometric calculations
- Visual and audible alarms
- Graphic display for saved data
- 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

- For HP 32: All HC2 and HC2A probes (except HC2-LDP)
- HW4 software > V3.9

Package content

- HygroPalm HP31 or HP32 (without probe)
- Soft case
- Micro-USB cable (computer connection and battery charging)
- HW4 LITE no license key needed (max. 3 instruments connected)

General specifications		
Order code	HP31	HP32
Device type	Handheld device (%RH / °C)	
Compatible probes (HP32)	Fixed probe	All HC2A and HC2 probes (except HC2-LDP)
Application range	-1060 °C 0100 %RH (non-cond.)	
Storage range	-1045 °C 1090 %RH	
Probe application range	-1060 °C 0100 %RH (non-cond.)	Depends on probe
Functions	Spot measurements Programmable logging interval MIN / MAX / AVG	

General specifications			
Order code	HP31	HP32	
Accuracy @ 23°C	±2 %rH / ±0.3 °C	Depends on probe	
Logging interval	1 s24 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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Dimensions HP32 All HC2A and HC2 probes (except HC2-LDP)



POSSIBLE PROBES FOR THE HP32

STANDARD AND HIGH PRECISION PROBES

Accuracy (Standard): Accuracy (High Precision):

Application range: Long-term stability: Order code: ±0.8 %RH, ±0.1 K at 10...30 °C ±0.5 %RH at 10...90 %RH, ±0.1 K at 10...30 °C -50...100 °C, 0...100 %RH <1 %RH / year HC2A-S (Standard) HC2A-SH (High Precision)

HIGH TEMPERATURE HANDHELD PROBE

Accuracy: Application range: Long-term stability: Cable length: Order code: ±0.8 %RH, ±0.2 K at 10...30 °C -100...200 °C, 0...100 %RH < 1 %RH / year 2 m HC2-HK25

INSERTION PROBES

Accuracy:

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

- 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

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