

# HYGROPALM HP32



## ADVANTAGES

- 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 for time programmable interval logging
- Long lasting battery (up to 48h when logging every 30s)

## APPLICATIONS

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



## TECHNICAL INFORMATION

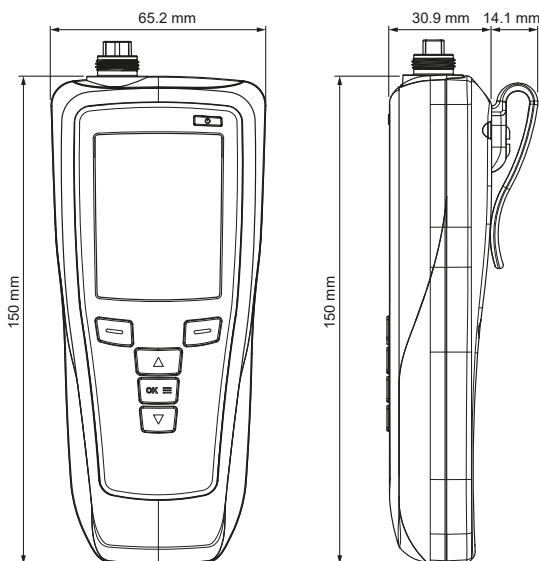
### Compatible with

- All HC2 and HC2A probes
- HW4 Software

### Package content

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

### 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<br>Time programmable interval logging<br>MIN / MAX / AVG  |
| Logging interval           | 1s...24h  |
| Memory capacity            | 8x8000 data points  |
| Psychrometric calculations | Dew / Frost point (Dp / Fp)<br>Wet bulb temperature (Tw)<br>Enthalpy (H)<br>Vapor concentration (Dv)<br>Specific humidity (Q)<br>Mixing ratio by weight (R)<br>Vapor pressure (E)<br>Saturation vapor pressure (Ew)<br>Saturation vapor density (SVD) |
| Calculation method         | WMO Standard  |
| Display refresh rate       | 1 s (typical)   |
| Integrated Battery         | Lithium Polymer, 3,7V, 1000 mAh<br>48h – Logging every 30s, screen off<br>10h – Screen always on  |
| PC Interface               | Micro-USB port, HW4 compatible  |
| Housing / Mechanics        |   |
| Housing Material           | ABS, TPR  |
| IP Protection              | IP65  |
| Dimension                  | 160 x 63 x 30 mm  |
| Weight                     | 185 g   |

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## POSSIBLE PROBES FOR THE HP32

### STANDARD PROBE AND HIGH PRECISION PROBE

|                            |  |
|----------------------------|--|
| Accuracy (Standard):       | $\pm 0.8\% \text{RH}$ , $\pm 0.1 \text{ K}$ at 10...30 °C              |
| Accuracy (High Precision): | $\pm 0.5\% \text{RH}$ at 10..90 %RH, $\pm 0.1 \text{ K}$ at 10...30 °C |
| Application Range:         | -50..100 °C, 0...100 %RH   |
| Long-term stability:       | <1 %RH / year  |
| Order code:                | HC2A-S (Standard)<br>HC2A-SH (High Precision)                          |



### HIGH TEMPERATURE HANDHELD PROBE

|                      |   |
|----------------------|---|
| Accuracy:            | $\pm 0.8\% \text{RH}$ , $\pm 0.1 \text{ K}$ 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:            | $\pm 0.8/1.5\% \text{RH}$ , $\pm 0.1/0.3 \text{ K}$ 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   |



## 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** 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)
- Fulfills 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](http://www.rotronic.com).