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## **Rotronic HygroPalm HP32 Handheld Relative Humidity & Temperature Meter**



## Short Description

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

## Description

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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

Explanation	<p><b>Probe options for the HP32</b></p> <p><b>Standard and High Precision probes</b> Accuracy (Standard): <math>\pm 0.8\% \text{RH}</math>, <math>\pm 0.1 \text{ K}</math> at <math>10\ldots 30\text{ }^{\circ}\text{C}</math> Accuracy (High Precision): <math>\pm 0.5\% \text{RH}</math> at <math>10\ldots 90\% \text{RH}</math>, <math>\pm 0.1 \text{ K}</math> at <math>10\ldots 30\text{ }^{\circ}\text{C}</math></p> <p><b>High temperature handheld probe</b> Accuracy: <math>\pm 0.8\% \text{RH}</math>, <math>\pm 0.2 \text{ K}</math> at <math>10\ldots 30\text{ }^{\circ}\text{C}</math> Application range: <math>-100\ldots 200\text{ }^{\circ}\text{C}</math>, <math>0\ldots 100\% \text{RH}</math> Long-term stability: <math>&lt; 1\% \text{RH} / \text{year}</math></p> <p><b>Insertion probes</b> Accuracy: <math>\pm 0.8/1.5\% \text{RH}</math>, <math>\pm 0.1/0.3 \text{ K}</math> at <math>10\ldots 30\text{ }^{\circ}\text{C}</math> Application range: <math>-40\ldots 85\text{ }^{\circ}\text{C}/0\ldots 100\% \text{RH}</math> Long-term stability: <math>&lt; 1\% \text{RH} / \text{year}</math></p> <table><tr><td>ACCURACY</td><td>Depends on the probe</td></tr><tr><td>PARAMETERS</td><td>Relative humidity and temperature</td></tr><tr><td>PROBES</td><td>All HC2A and HC2 probes</td></tr><tr><td>DEVICE TYPE</td><td>Handheld device</td></tr><tr><td>FUNCTIONS</td><td>Spot measurements Time programmable interval logging MIN / MAX / AVG</td></tr><tr><td>RANGE OF APPLICATION</td><td><math>-10\ldots 60^{\circ}\text{C} / 0\ldots 100\% \text{RH}</math> (non-cond.)</td></tr><tr><td>BATTERY</td><td>Lithium Polymer, 3,7V, 1000 mAh (integrated) 48h – Logging every 30s, screen off 10h – Screen always on</td></tr><tr><td>PSYCHROMETRIC CALCULATIONS</td><td>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)</td></tr><tr><td>CALCULATION METHOD</td><td>WMO Standard</td></tr><tr><td>DISPLAY REFRESH RATE</td><td>1 s (typical)</td></tr><tr><td>LOGGING INTERVAL</td><td>1 s...24 h</td></tr><tr><td>STORAGE CAPACITY</td><td>8x8000 data points</td></tr><tr><td>COMMUNICATION INTERFACES</td><td>Micro USB</td></tr><tr><td>HOUSING</td><td>ABS, TPR</td></tr><tr><td>IP PROTECTION RATING</td><td>IP65</td></tr><tr><td>STORAGE AND TRANSPORT CONDITIONS</td><td><math>-10\ldots 45\text{ }^{\circ}\text{C} / 10\ldots 90\% \text{rF}</math></td></tr><tr><td>DIMENSIONS</td><td>160 x 63 x 30 mm</td></tr><tr><td>WEIGHT</td><td>185 g</td></tr></table>	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	$-10\ldots 60^{\circ}\text{C} / 0\ldots 100\% \text{RH}$ (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	$-10\ldots 45\text{ }^{\circ}\text{C} / 10\ldots 90\% \text{rF}$	DIMENSIONS	160 x 63 x 30 mm	WEIGHT	185 g
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Contents	<ul style="list-style-type: none"><li>• HygroPalm HP32 (without probe)</li><li>• Soft Case</li><li>• Micro-USB Cable (computer connection and battery charging)</li><li>• HW4 LITE license key (3 instruments connected max)</li></ul>																																				
Ideal For	Professional																																				
Brand	Rotronic																																				
Typical applications	Building Monitoring, Building Performance, Environmental (Indoor), Food Safety, HVAC, Pharmaceutical																																				
Measurements	Dew Point, Humidity, Temperature																																				