HygroPalm HP32

The HygroPalm HP32 can be combined without adjustment with all all HC2 and HC2A probes (except HC2-LDP). It measures relative humidity and temperature, can perform all psychrometric calculations and has trend indicators as well as a hold function to freeze measured values.
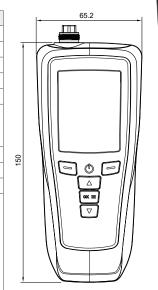
APPLICATIONS

Field inspection and spot checks in HVAC, pharmaceutical industry, agriculture and food industry and building management systems.

FEATURES

- 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)

General specifications	
Order code	HP32
Device type	Handheld device (%rh / °C)
Application range	-10...60 °C | 0...100 %rh (non-cond.)
Storage range	-10...45 °C | 10...90 %rh
Probe application range	Depends on probe
Functions	Spot measurements Programmable logging interval MIN / MAX / AVG
Accuracy @ 23°C	Depends on probe
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, HygroSoft software compatible
Housing / Mechanics	
Enclosure material	ABS, TPR
IP protection class	IP65
Dimensions	160 x 63 x 30 mm
Weight	185 g

Compatible

- All HC2 and HC2A probes (except HC2-LDP)

Delivery package

- HygroPalm HP32
- Short instruction manual
- Soft case
- USB-Micro service cable AC0006

Recommended accessories

- Humidity standard for calibration 10 %rh   EA10-SCS
- Humidity standard for calibration 35 %rh   EA35-SCS
- Humidity standard for calibration 80 %rh   EA80-SCS

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Specifications handheld instruments

Features	HP31	HP32
Probe type	Fixed probe	HC2A-xx (not included)
Probe interchangeable	No	Yes
Humidity / Temperature sensor	HYGROMER® IN-1 Pt100 1/3 Class B	Probe dependent
Number of probe inputs	N/A	1
Measurement range (probe)	-10…60 °C 0…100 %rh	Probe dependent
Accuracy at 10…30 °C	±2 %rh / ±0.3 K	Probe dependent
Long-term stability	<1 %rh / year	
Response time humidity sensor	<15 s τ63	Probe dependent
Initialization time	<2 s	
Range of application	-10…60 °C / 0…100 %rh	
Display resolution	2 decimals	
Illuminated display	Yes	
Alarm indicators	Yes	
Battery indicator	Yes	
Real time clock	Yes	
Functions		
Adjustment of transmitters	No	
Adjustment via keypad	Single & multi-point %rh Single-point °C	
Probe adjustment with dew point reference	No	
Calculations	All psychrometric parameters	
Data logging	8 x 8,000 measurement points	
Electrical specifications		
Power supply	Integrated rechargeable battery	
Rechargeable battery charge	No	
Battery life (typical, without backlight)	4…7 h	
Communication interfaces	Micro USB Service cable AC0006	
Max. length probe cable	5 m	
Mechanical specifications		
Housing material	ABS, TPR (housing)	
Dimensions	250 x 65 x 31 mm	150 x 65 x 31 mm (without probe)
Weight	200 g	185 g
CE / EMC directives	2014/30/EU	
IP protection class	IP65	