



Rotronic HP23-A HygroPalm Humidity & Temperature Meter (2 Probe Inputs)

Product Images



Short Description

The perfect handheld instrument and calibrator for climatic measurements

Description

The HP23 is a multi-function hand-held indicator that can read the data from up to two HygroClip2 probes and display relative humidity, temperature and a calculated parameter such as the dew or frost point.

Full logging functions including spot recording, with time base, multi-point calibration adjustment.

Any probe input can also be configured by the user to accept a third party analogue probe (restrictions apply).

Probe selection is based on the application. Depending on the HygroClip2 probe model, the measuring range is within 0 to 100 %RH and -100 to 200°C (-148 to 392°F).

The HygroClip2 probes feature durable sensors, consistent performance and can be hot-swapped to facilitate routine maintenance.

The HP23 indicator offers extensive settings and functions that can be enabled and configured by the user either directly from the keypad or with the ROTRONIC HW4 software.

The measurement results can be recorded continuously and these separated simply using the batch function. All ROTRONIC transmitters in the Airchip3000 series can be adjusted with the HP23-A via a service cable.

Applications

Mobile applications in the food & pharmaceutical industries, HVAC/building management systems, museums and warehouses.

Key Features

- Highest possible measuring accuracy
- Ensures measurement reproducibility
- Relative humidity and temperature measurement and calculated psychrometric values
- Data recording function up to 10,000 data records (with date, time, batch no.)
- Two probe connections for all ROTRONIC HC2 probes or analogue third-party probes
- Adjustment of transmitters HF3, HF4, HF5, HF7, HF8, via service cable
- Integrated clock (real time clock) for timestamp for every measured value
- Mini USB interface available for a PC running HW4 software)
- Battery charging function.

Available as a [complete kit](#). Otherwise, contact us for advice on the best probe for your requirements.

Additional Information

Explanation	Accuracy at 23 ±5 °C	Probe dependent
	Operating range	-10 - 60 °C / 0 - 100 %rh
	Power consumption	9V battery or accumulator Power Supply: Consumption 10 mA without backlight
	Long-term stability	<1 %rh / year
	Humidity sensor	Probe dependent
	Temperature sensor	Probe dependent
	Response time t 63	Probe dependent
	Allowed wind speed	Probe dependent
	Psychrometric calculations	All psychrometric values
	Backlight	with Backlight
	Calibration / adjustment	multipoint adjustment via keypad
	Display resolution	3 decimals
	Display type	Standard, 3-line or large. Display freely configurable.
	Initialisation time	Typically
	Number of probe inputs	2 (HygroClip2 or Analogue)
	Keypad (with display only)	Yes
	Battery indicator	Low Battery Display
	Real time clock w backup battery	Yes
	Memory size	20,000 records (2x 10,000 data pairs)
	Exploitation software	ROTRONIC HW4
	Menu guidance	Yes
	Trend indicator	Yes, for models with display
	Statistical functions	Min / Max, Average
	Probe adjustment by software	Yes, with service cable
	Probe adjustment by keypad	1 point or multi-point temperature and humidity adjustment
	Event logging	Yes
	Software Update	With internet and HW4 software
	User information	from Software HW4 (devicemanager)
	Data processing via HW4	Graphics, statistics, analysis, qualification, etc.
	Audit Trail/ electronic records	FDA 21 CFR Part 11 and GAMP compatible
	Choice of Battery / rechargeable battery	Yes
	Supply for 3rd party probes	Yes, battery voltage
	Service information	Date of last calibration
	Enclosure material	ABS
	Fire protection class	Complies UL94-HB
	IP protection rating	IP40
	Max. cable length	Up to 5 m with passive cable. Up to 100 m with active cable.
	Probe material	Dependent on probe
	Reverse voltage protection	Mechanically in the connector
	Service interface	Mini USB
	FDA/GAMP compatibility	FDA 21 CFR Part 11 and GAMP compatible
	Dimensions	196 x 72 x 35 mm
	Weight	300g
Ideal For	Professional	
Brand	Rotronic	
Maximum Temperature	+200	
Typical applications	Building Performance, Environmental (Indoor), HVAC	
Measurements	Humidity, Temperature	