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HYGROPALM

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HYGROPALM 23





THE PERFECT HANDHELD INSTRUMENT AND CALIBRATOR FOR CLIMATIC MEASUREMENTS.

INTRODUCING AIRCHIP DIGITAL TECHNOLOGY.

INNOVATION IN HUMIDITY AND TEMPERATURE MEASUREMENT

- Highest possible measuring accuracy
- Ensures measurement reproducibility
- Relative humidity and temperature measurement and calculated psychrometric values
- Two interchangeable probe inputs, digital or analog
- 20,000 data point memory with real-time clock
- Data capture of 250 data points each for up to 8 defined locations
- Probe adjustment with dew point reference
- Battery status indicator and charging function





HYGROPALM 23

The HygroPalm23 is the latest development in handheld measuring instruments for relative humidity, temperature and dew point. Based on AirChip3000 technology, this indicator achieves a degree of accuracy not seen before.

In combination with advances in sensor technology and integration, the HygroPalm23 provides superb precision and state-of-the-art functionality, taking humidity and temperature mesurement to a whole new level of performance and reliability (< 0.8 %rh / 0.1 K).

Flexible choice of probes

- The HygroPalm23 can be fitted with interchangeable probes
- Has 2 probe inputs
- Connection of HygroClip2 or analog probes possible
- No adjustment required for HygroClip2 probes

Interface

- Easy and quick access to service connector possible
- Mini USB interface available for a PC running HW4 software
- Offers extended calibration and calculation functions
- Remote connection to HygroClip2 transmitters

Practical display

- The clear, backlit graphic display is easy to read and the simple menu navigation provides fast access to all the information available
- Trend indication of values
- Saves measurements (capture logging) and allows display of all values
- · Battery status indicator
- Display resolution to 3 decimal places
- Various display formats available



Standard



Large

Ergonomic housing

- Robust ABS housing with rubber grip for secure handling
- IP 40 protection

Battery/Rechargeable battery compartment

- · Battery or rechargeable battery holder with lock
- The battery powers third party probe (max. 5 V)
- Includes recharging function



For pricing or any further information, please contact Omni Instruments Ltd.



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HYGROPALM 23



The HygroPalm23 is ideal for all applications where precise measurement of humidity and temperature is required e.g. the food and pharmaceutical industries, printing and paper industries, the sciences, meteorology, agriculture, climatology and many more. There is hardly a field in which these parameters may be ignored. It is ultimately the measuring task at hand that defines the HygroPalm instrument and probe that best meets your needs.





Museums, art galleries Food industry



HVAC / Building management



Paper industry



Healthcare, the sciences

PROBES FOR HYGROPALM23.

Whether you need a simple climate probe for measuring ambient conditions or a more sophisticated cable mount probe for high temperature and other special applications, we can provide you with the ideal HygroClip2 probe to suit your requirements. All HygroClip2 probes can be individually calibrated and adjusted to increase measurement precision where you need it the most. This capability is what makes every probe in the product range a high-end solution for your application.

Standard Climate Probes

Probes with maximum accuracy, for all climatic measurements, operating ranges -40...100 °C, 0...100 %rh



High Temperature Probes

Hand-held probes for applications to 200 $^{\rm o}{\rm C}$ Probe length 250 and 400 mm Ø15 mm

Miniature Probes

4 and 5 mm probes for measurements in confined spaces such as packaging etc. and for building material tests



Analog Probes

Connect analog probes for the measurement of wind velocity, pressure etc.



An up-to-date overview of our extensive range of accessories such as cables, filters, sets, software and calibration equipment as well as further information on the HygroPalm23 is available on our web site.

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TECHNICAL INFORMATION.

Data Logging.

View historical data. The values stored in the instrument can be displayed graphically with the optional HW4 software. You can define the storage intervals, the alarm limits, the type of alarm generated (analog or digital probes), the scaling and much more. The HygroPalm23 can therefore be integrated in any application.

Data Capture.

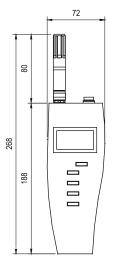
The HP23 handheld instrument offers you the possibility to record up to 8x250 data points. This data, including time stamp, can be called up individually, thereby providing perfect multi-room monitoring. Thanks to this function, the handheld instrument is ideal for everyday use.

Adjustment.

There are three different adjustment profiles for measurement accuracy available as options. With the highest version the instrument is adjusted at 20 humidity values and three different temperatures. A further advantage of this version: the data are stored on the AirChip and can therefore be used for audits.

Sensor Diagnostics.

The intelligence of AirChip3000 technology enables advanced sensor diagnostics. Should the sensors deviate from factory defined parameters, the measured values are compensated electronically. You can select whether the values are to be compensated and whether an alarm is to be given.



Analog Probe Input

Socket (instrument): The numbers are given for illustration purposes only and are not marked on the socket.

- 1) RXD UART digital probe
- 2) GND (digital and power)
- 3) V+: digital probes: 3.3 VDC nominal, analog probes: max. 5.0 VDC, 10 mA
- 4) AGND (analog ground)
- 5) Not used
- 6) Single channel analog probe signal:+0.0 to 3.3 VDC
- 7) TXD UART digital probe

HP23 2 (HygroClip2 or analog) No. of probe inputs Humidity sensor Depends on probe Temperature sensor Depends on probe Accuracy at 23 ±5 °C Depends on probe used (±0.8 %rh / ±0.1 K) Long-term stability humidity sensor <1 %rh / year Response time τ 63 Depends on probe Start-up time Typically < 3 s Measurement range Depends on probe 0...100 %rh / -10...60 °C Electronics operating range Graphic display, backlit, parameters configurable, Display type 3 decimal places Alarm indicator Yes Real-time clock Yes, with backup battery Trend indicator Yes 9 V battery or rechargeable battery Power supply Typically 10 mA with backlight off Power consumption Power for 3rd-party probes Yes, battery voltage Battery indicator Yes, status indicator Firmware upgrade Yes, via HW4 software Sensor diagnostics (drift, state) Programmable, default: off Depends on probe Filter Max. air velocity at sensor Depends on probe Humidity / Temperature adjustment Yes, 1-point or multi-point temperature and humidity adjustment from keyboard Humidity / Temperature adjustment Yes, temperature 2-point / via dew point reference humidity max. 100 points Adjustment with software 1-point & multi-point (%rh / °C), with service cable 20,000 data points (2 x 10,000 data point pairs) Data logging memory function Psychrometric calculations Dew point, wet-bulb temperature, mixing ratio, enthalpy, water vapor content, water vapor density Event logging Yes Mini USB Interface Device lock Via service cable & HW4 software Graphs, statistics, analyses, qualification, etc. Data processing with HW4 Max. length service cable 5 m Housing material / weight ABS / approx. 300 g Dimensions 196 x 72 x 35 mm Standards CE-compliant 2007 / 108 / EC FDA-CFR21 Part 11 / GAMP compliance Audit trail & electronic records IP 40 / Complies with UL94-HB IP & fire protection rating

Accessories

Order no.: A-02XX

Description: Cable adapter 2m, with open ends for analog probe connection

Whilst every effort has been made to ensure the accuracy of this specification, we cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

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