RELATIVE HUMIDITY AND TEMPERATURE MEASUREMENT

DEW POINT AND OTHER PSYCHROMETRIC CALCULATIONS

OUTSTANDING ACCURACY AND REPEATABILITY

AUTO-DIAGNOSTICS AND AUTOMATIC CORRECTION

HIGHEST-POSSIBLE MEASURING ACCURACY

HANDHELD FOR HUMIDITY AND TEMPERATURE

HYGROPALM

HANDHELD INSTRUMENT FOR EVERY APPLICATION.

INTRODUCING AIRCHIP DIGITAL TECHNOLOGY.

INNOVATION IN HUMIDITY AND TEMPERATURE MEASUREMENT

• Relative humidity and temperature measurement
• Dew Point and other psychrometric calculations
• Outstanding accuracy and repeatability
• Auto-diagnostics and automatic correction
• Highest-possible measuring accuracy
The HygroPalm2-series 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 HygroPalm2-series provides superb precision and state-of-the-art functionality, taking humidity and temperature measurement to a whole new level of performance and reliability (< 0.8 %rh / 0.1 K).

**SPECIFY THE BEST:**

**HYGROPALM ADVANTAGES AT A GLANCE.**

- **Integral or interchangable probe**
  - The HygroPalm21 has an integral probe and the HygroPalm22 is used with an interchangeable probe

- **Easy to read display**
  - Clear, backlit graphic display for easy reading

- **AirChip3000**
  - Compensates humidity and temperature over 30,000 reference points
  - Dew/frost point calculation
  - Sensor auto-diagnostics and automatic correction
  - Active alarming and information
  - ASIC (Application Specific Integrated Circuit), micro-controller and EEPROM on one chip

- **Tried-and-tested housing**
  - Ergonomic and robust ABS housing with rubber grip for secure handling
Applications.

The HygroPalm2-series (with integrated or interchangeable probes) is ideal for all applications where exact measurement of humidity and temperature is of decisive importance, e.g. the food and pharmaceutical industries, printing and paper industries, many trades, the sciences, meteorology, agricultural sector, climatology, etc. There is hardly a field today in which these parameters may be ignored. It is ultimately the measuring task at hand that defines the HygroPalm instrument that best meets your needs.

Probes for HygroPalm22.

Whether you need a simple climate probe for measuring ambient conditions or a more sophisticated cable 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 exactly 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 range -40...100 °C

High Temperature Probes
Hand-held probes for applications to 200 °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

Sword Probes
Sword probes for measurements in paper, cardboard and textile stacks

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 HygroPalm21/22 is available on our web site www.rotronic.com.
TECHNICAL INFORMATION.

Factory Adjustment.
Three different adjustment profiles are available from the factory for the HygroClip2; this means that measuring accuracy can be matched to the application need. The custom adjustment profile consists of 20 humidity values at 3 temperatures to ensure optimum performance over a required working range. The data is stored on the AirChip and can be retrieved later for audit purposes.

Sensor Diagnostics.
The intelligence of AirChip3000 technology enables advanced sensor diagnostics. Should the sensors deviate from factory defined parameters, measurement values can be compensated automatically and a digital alarm triggered on the display.

Data Logging and Alarm Generation.
Up to 2,000 measurement values can be stored in the HygroPalm21 or in the HygroClip2 probe used with the HygroPalm22 the user is able to configure the measurement interval, set alarm limits, scale the output signal and download data using optional ROTRONIC HW4 software.

Interested in further information (special applications, order codes)?
A complete and up-to-date overview of the HygroPalm21/22 series is available on our web site www.rotronic.com.