## **HYGROPALM**



## Digital

## umidity goes Digita

# HYGROCLIP



## Portable Humidity Temperature Indicator

- Accurate measurement of humidity and temperature
- Dew-point and other calculated parameters
- Calibrator function for on-site maintenance of transmitters
- Wide choice of interchangeable probes
- Optional docking station with battery charger & connection to PC



LEADING IN HUMIDITY MEASUREMENT

HygroPalm® uses the very latest in digital technology. Three versions satisfy the needs of all users. Each accepts a wide range of probes for maximum

## **The Digital Advantage**

application flexibility. The probes are interchangeable to virtually eliminate any downtime during calibration or maintenance.

The HygroPalm offers a wide range of features, including calculation of various humidity parameters, precise software based probe calibration, and on-site diagnostics / calibration of transmitters. The optional docking station is used to recharge the battery and to connect to a PC for data logging\* and instrument configuration.

## Which HygroPalm is right for you?

## **HygroPalm 1 Key Features**

- Portable indicator for %RH, temperature
- Display of dew-point or wet-bulb
- Indicator can be used to display transmitter readings
- 1-point probe adjustment directly from keypad

## **HygroPalm 2 Key Features**

- All the features of HygroPalm 1
- + Full range of psychrometric calculations
- + Multipoint probe calibration directly from keypad
- + Second input for digital probe or connection to a transmitter

+ 1-point adjustment of a transmitter against HygroPalm probe

## **HygroPalm 3** Key Features

- All the features of HygroPalm 2
- + Full transmitter calibration functions
- + Universal probe input for pressure, air-flow etc
- + Dynamic pressure compensation of calculated parameter

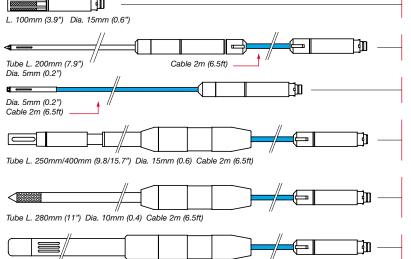
See page 4 for a full summary of technical specifications and features.

## HygroPalm 1 HygroPalm 2 HygroPalm 2 HygroPalm 2 HygroPalm 2 Universal probe input HygroPalm 3 Frameter

## **HygroPalm** Probe Options

Blade L. 280mm (11") W. 18mm (0.7") T. 4mm (0.16") Cable 2m (6.5ft)

The ROTRONIC HygroClip digital probes are available in different configurations so as to meet the requirements of each application:



## HygroClip S

for measurement in air, max. 85°C (185°F) wire mesh filter

### HygroClip SP05

for measurement in air ducts, max. 85°C (185°F)

### **HygroClip SC05**

for measurement in tight spaces, max. 100°C (212°F)

### HygroClip HK25 / HK40

air probe for measurement at high temperature HK25: max. 150°C (302°F)/HK40: max. 200°C (392°F) wire mesh filter

## HygroClip HP28 insertion probe

for measurement of materials in bulk, max. 85°C (185°F) sintered steel filter

## HygroClip HS28 sword probe

for measurement of paper stacks/rolls, max. 85°C (185°F)

<sup>\*</sup> Not available with HygroPalm1







## **Product Summary & Technical Data**



| FEATURES   | HYGROPALM   | 1 HYGROPALM 2  | HYGROPALM 3                                      |
|--|---|--|--|
| Number of probe inputs                           | 1   | 2  | 2  |
| Probe type                                       | Digital (HygroCl  | ip) Digital (HygroClip)  | Digital (HygroClip)<br>Analog 02.5V, 9V DC, 10mA |
| RS232 connector                                  | No  | Yes  | Yes  |
| Probe Adjustment:                                |   |  |  |
| 1 point %RH, °C/°F, directly from keypad         | Yes   | Yes  | Yes  |
| 4 point %RH, 2 point °C/°F, directly from keypad | No  | Yes  | Yes  |
| 4 point %RH, 2 point °C/°F, via PC (HW3 softwar  | re) No  | Yes  | Yes  |
| Transmitter Calibration Functions:               |   |  |  |
| Adjustment against physical standard             | No  | No   | Yes  |
| Adjustment against reference probe               | No  | Yes  | Yes  |
| Display of measured values                       | Yes   | Yes  | Yes  |
| Display of transmitter status                    | No  | Yes  | Yes  |
| Calculation & Unit Display:                      |   |  |  |
| Dew-point and wet bulb temp.                     | Yes   | Yes  | Yes  |
| Full range of psychrometric calculations         | No  | Dew-point, wet-bulb, enthalpy, pressure, saturation vapor pres | • .  |
| Technical Specifications:                        |   |  |  |
| Maximum measuring range                          | Probe dependent; 0100%RH, -50+200°C (-58392°F)  |  |  |
| Display operating range                          | 099%RH (non-condensing), -10+60°C (14140°F)   |  |  |
| Display type                                     | Liquid Crystal 4 line alphanumeric  |  |  |
| Display resolution                               | 0.1%RH/°C/°F, 0.001 calculated parameter (depends on parameter)   |  |  |
| Instrument power                                 | 30mA max. power consumption, 9V alkaline battery, 100 hours   |  |  |
|  |   | s, recharging through docking st                               | tation,  |
| Accuracy (at 22°C/72°F)                          | 9V AC adapter, +Tip (docking station required)  |  |  |
| Accuracy (at 23°C/73°F)                          | ±1.0%RH, ±0.2°C (0.4°F) with 4 point calibration. ±1.5%RH, ±0.2° (0.4°F) standard EN 50081-2, EN 50082-2, EN 50081. 2-1 |  |  |
| CE Conformity                                    | EN 30061-2, EN 30082-2  | , EN 30001. Z-1  |  |

| ORDERING INFORMATION |   |  |
|----------------------|---|--|
| Order code:          | Description:  |  |
| HygroPalm 1          | Humidity temperature indicator, dew-point/wet-bulb calculation  |  |
| HygroPalm 2          | Humidity temperature indicator, full psychrometric calculations   |  |
| HygroPalm 3          | Humidity temperature indicator, full psychrometric calculations, full calibration functions                       |  |
| HygroPalm set        | HygroPalm, (specify 1, 2 or 3) HygroClip S probe, ER15 calibration device, EA50 (50%) calibration solutions, case |  |
| PalmDock             | Docking station for battery charging and PC connection include AC adapter & RS232 cable                           |  |
| HygroClip S          | Standard probe for air, -40+85°C (-40+185°F)  |  |
| HygroClip SP05       | 5mmØ insertion probe, -40+85°C (-40+185°F)  |  |
| HygroClip SC05       | Mini probe for measurement in tight space, -40100°C (-40+212°F)   |  |
| HygroClip HK25/40    | Extended probe for high temperatures, HK25 -50 150°C (-58 302°F), HK40 200°C (392°F)                              |  |
| HygroClip HP28       | 10mmØ insertion probe, -40+85°C (-40+185°F)   |  |
| HygroClip HS28       | Sword probe, -40+85°C (-40+185°F)   |  |
| HygroData HP         | Cable (Palm to PC) and HW3 software for HygroPalm 2 & 3   |  |
| MOK-02-DAT05         | 2m extension cable, HygroClip to HygroPalm  |  |