

# HYGROPALM

# HYGROCLIP<sup>®</sup>

Humidity goes Digital



## Portable Humidity Temperature Instrument

- Precision measurement of humidity and temperature
- Interchangeable digital probes
- No need for calibration
- Combination charger and PC docking station
- Dew-point measurement
- SWISS MADE

# rotronic<sup>®</sup>

LEADING IN HUMIDITY MEASUREMENT

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# HYGROPALM

HygroPalm represents a new generation of portable humidity/temperature instruments, utilising the very latest in digital technology. Three versions satisfy the needs of all users. Each offers the convenience of interchangeable probes eliminating the need for probe calibration or repair downtime, and maximising application flexibility.

## The Digital Advantage

Digital technology enables a wide range of new features, including digital sensor module calibration, transmitter diagnostics and moisture calculation. A unique docking station offers battery re-charging and has an RS232 PC interface\* for data-logging and processing.

\* Not available with HygroPalm1

## Which HygroPalm is for you?

### HygroPalm 1 Key Features

- Portable instrument for %rh, °C
- Display of dew-point or wet-bulb
- Transmitter interface (display only)
- Single point probe adjustment

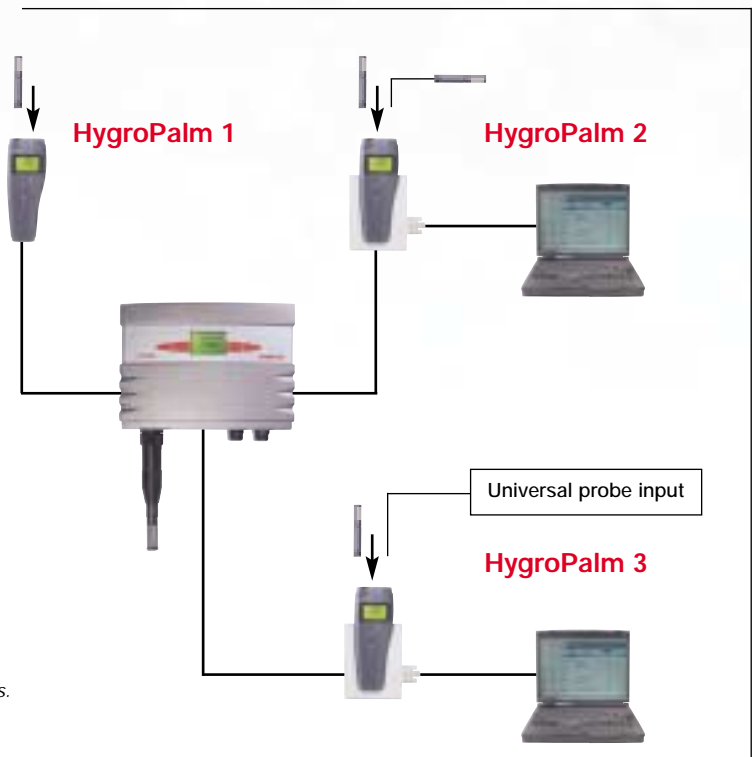
### HygroPalm 2 Key Features

- All the features of HygroPalm 1
- + Second %rh/°C probe input
- + Multipoint probe calibration
- + RS232 PC interface
- + Full psychrometric calculation

### HygroPalm 3 Key Features

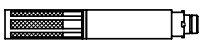
- All the features of HygroPalm 2
- + Universal probe input for pressure, air-flow etc
- + Dynamic pressure compensation feature
- + Transmitter Interface (adjustment)

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



## HygroPalm Digital Probe Options

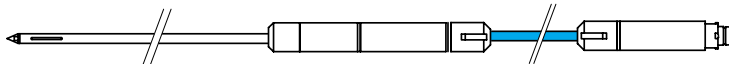
The ROTRONIC HygroClip digital probes are available in different configurations to meet the requirements of each application:



L. 100mm (3.9") Dia. 15mm (0.6")

### HygroClip S

for measurement in air, -40...+85 °C (-40...+185 °F), wire mesh Filter



Probe L. 200mm (7.9") Cable 2m (6.5ft) Dia. 5mm (0.2")

### HygroClip SP05

for measurement in walls and air ducts, -40...+85 °C (-40...+185 °F)



Dia. 5mm (0.2") Cable 2m (6.5ft)

### HygroClip SC05

for air measurement in tight spaces -40...+100 °C (-40...+212 °F)



Probe L. 250mm/400mm (9.8/15.7") Dia. 15mm (0.6") Cable 2m (6.5ft)

### HygroClip HK25 / HK40

for air probe measurement at high temperature, wire mesh filter; HK25: -50...+150 °C (-58...+302 °F) HK40: -50...+200 °C (-58...+392 °F)



Probe L. 280mm (11") Dia. 10mm (0.4") Cable 2m (6.5ft)

### HygroClip HP28 tubular probe

for measurement of materials in bulk, -40...+85 °C (-40...+185 °F), sintered stainless steel filter



Blade L. 280mm (11") Cable 2m (6.5ft)

### HygroClip HS28 sword probe

for measurement of paper stacks/rolls, -40...+85 °C (-40...+185 °F)



## Feature Overview

A wide range of probes are available to satisfy most application requirements – these can be interchanged without affecting measurement accuracy.

LC Display of humidity and temperature value. Indication of probe being used.



Connection plate accepts two probe connectors, and an RS232 connection.

Ergonomic and robust ABS housing features rubber 'grip-strip' for secure handling in damp environments.

### Five button keypad

#### ON/OFF

Also activates display hold function

#### MENU

Switches function menu on/off

#### UP/DOWN

For navigation and selection of probe

#### ENTER

Battery

Power inlet connector. The docking station acts as a HygroPalm battery charger.

Docking station features an RS232 connection to PC.

Optional HW3 software for probe calibration, on-line data logging, graphing, calculation functions and alarm functions with audible, visual, email and SMS notification also included.





## Product Summary & Technical Data



FEATURES	HYGROPALM 1	HYGROPALM 2	HYGROPALM 3
Probe Connections (combined %rh/°C)	1	2	2
Signal Input	1 digital	2 digital	2 digital or 4 analogue
Third party probe input	No	No	0...2.5V, 9VDC, 10mA supply
RS232 interface	No	Yes	Yes
<b>Probe adjustment</b>			
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 software)	No	Yes	Yes
<b>Remote Transmitter Control</b>			
Transmitter adjustment	No	No	Yes
Transmitter adjustment against reference probe	No	Yes	Yes
Transmitter measurement display	Yes	Yes	Yes
Transmitter status display	No	Yes	Yes
<b>Calculation &amp; Unit Display</b>			
Dew-point and wet bulb temperature	Yes	Yes	Yes
Full psychrometric calculation	No	Yes	Yes
Pressure compensation of calculated values	No	Manual with software adjustment	Manual or automatic with probe input
Humidity displayed in aW units	No	No	Yes
<b>Technical Specifications (incl. probe)</b>			
Measuring range	Probe dependent; 0...100%rh, -50...+200°C (-100...+392°F)		
Accuracy at 23°C	±1.5%rh, ±0.3K (0.5°F)		
Instrument operating limits	0...99%rh non-condensing, -10...+60°C (14...140°F)		
Display type	Liquid Crystal 4 line alphanumeric		
Display resolution	0.1%rh, 0.1°C/°F, 0.01 calculated value		
Instrument power	30mA max. power consumption, 9V alkaline battery, 100 hours life, 9V rechargeable, 75 hours life, docking station recharging, 9V power adapter, + tip		

ORDERING INFORMATION	
Order code	Description
HygroPalm 1	Humidity temperature meter, single probe, dew-point/wet-bulb calculation
HygroPalm 2	Humidity temperature meter, dual probe, full psychrometric calculation
HygroPalm 3	Humidity temperature meter, dual probe, full psychrometric calculation
PalmDock 1	Docking station for power connection, battery charging & PC RS232 connection (HygroPalm 2/3 only)
PalmDock 2 (lockable)	Docking station for power connection, battery charging & PC RS232 connection (HygroPalm 2/3 only)
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, -40...+100°C (-40...212°F)
HygroClip HK25/40	Extended probe for high temperatures, HK25 -50...+150°C (-58...302°F), HK40 -50...+200°C (-58...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	HW3 software, RS232 cable, for HygroPalm 2 & 3
MOK-02-DAT05	2M extension cable, HygroClip to display
AC1207	Mains adapter for PalmDock