



HygroPalm23-AW-A

Field application

The HygroPalm HP23-AW-A offers the perfect solution for on-site water activity measurements to confirm product stability and indicate shelf life. The HP23-AW-A is suitable as a mobile laboratory unit. Equal to the HygroLab C1 the HP23-AW-A is perfect as a portable analyzer with two probe inputs for any suitable HC2 probe. The HP23-AW-A can also be used in conjunction with HW4-P-QUICK-Vx.

Portable and convenient

Handheld instrument specially configured to suit the water activity user. It includes many of the advanced features of the HygroLab C1, but in a convenient portable configuration.

Features

- 2 input channels for HC2 station probes or HC2 insertion probes can be connected for measurement of water activity, relative humidity and temperature
- Aw Quick function for fast measurement results (typically 4-5 minutes)
- Audible alarm to indicate completed measurement
- Saves up to 10,000 data records with %RH, °C/°F, date and time
- Battery charging function

Order code	HP23-AW-A
Probe connections	2 HygroClip2 or analog input 0...3.2 VDC (power supply for analog probe: 5 VDC)
Parameters shown	Aw, % RH, °C, °F
Aw Quick function	Integrated or via optional HW4 software HW4-P-QUICK-Vx
Calculations	All psychrometric calculations available
Probe adjustment	Single or multiple point for relative humidity & temperature one or two point temperature
Memory	Capture mode: 8 x 250 values Logging mode: 10,000 values
Measurement interval	1 s, 10 s, 1 min, 10 min
Start-up time	3 s
Power supply	9 V battery or USB/ mains adapter via mini USB
Interfaces	Mini USB
HW4 compatible	Yes, for all HW4 versions
Range of application	-10...60 °C (14...140 °F) / 0...1 Aw / 0...100 %RH
LCD	3-line alphanumeric with trend indicators
Clock	Real time clock provides a time stamp for every measurement
Current consumption	Max. 20 mA (backlight ON)
IP protection class	IP30
CE / EMC conform	EMC 2008/108/EG
FDA / GAMP	FDA 21 CFR part 11 / GAMP5
Dimensions /Weight	188 x 72 x 30mm / 200 g
Material	ABS

Compatible products

Water activity probe: HC2-AW
 Insertion probe: HC2-P05, HC2-HP28, HC2-HP50

Aw Insertion probes

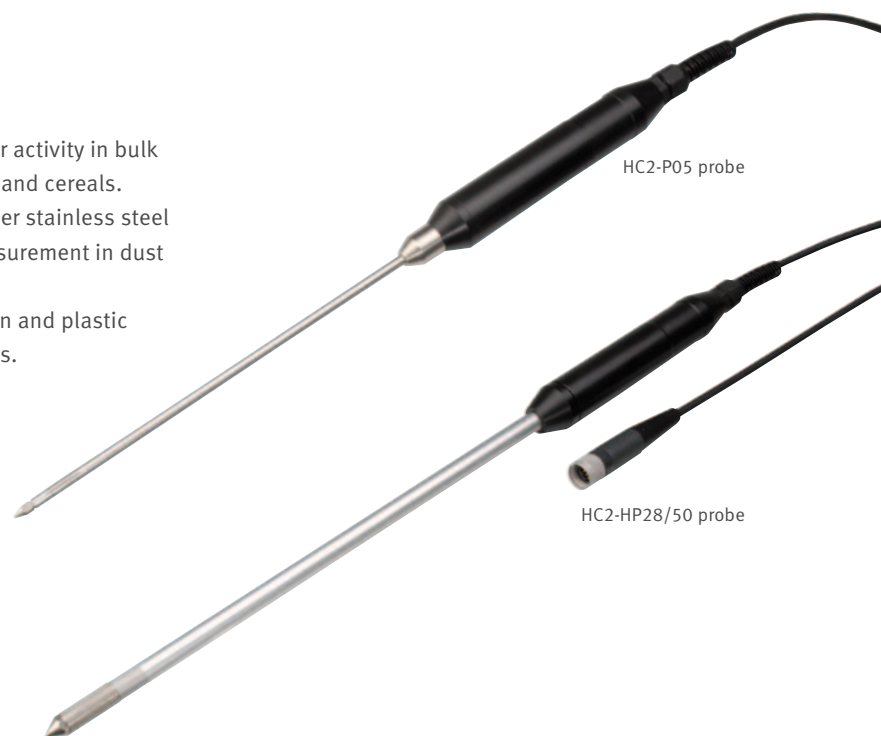
For direct measurement

The insertion probes are for direct measurement of water activity in bulk samples. Applications include powders, granules, grain and cereals. HC2-HP insertion probes feature a robust 10 mm diameter stainless steel probe with replaceable sintered steel dust filter for measurement in dust bulk material.

For dust free applications like tablets, gel capsules, grain and plastic granules the HC2-P05 fits perfectly with its laser cut slots.

Features

- 5 mm insertion probe for measurement in dust-free bulk materials
- 10 mm insertion probe for measurement in dusty bulk materials



Order code	HC2-P05	HC2-HP28	HC2-HP50
Probe length	Ø 5 x 200 mm	Ø 10 x 280 mm	Ø 10 x 500 mm
For use with	HygroLab C1, HP23-AW-A		
Accuracy at 23 °C ±5 K (73.4 °F)	±0.015 Aw / 1.5 %RH / ±0.3 K	±0.008 Aw / 0.8 %RH / ±0.1 K	
Temperature dependence	0.001 K/K, 0.02 %rh/K		
Sensor	HYGROMER® IN-1 / Pt-100, 1/3 DIN Class B		
Long term stability	<1 %RH / year		
Calculations	Dew or frost point		
Power supply	3.2...5 VDC, calibrated at 3.3 VDC, current: ~4.5 mA		
Digital interface	UART to other ROTRONIC devices or PC (HW4)		
Range of application	-40...85 °C (-40...185 °F) / 0...100 %RH		
Filter type	No filter available	Sintered steel with 5 µm pore size	
Response time τ63	<15 s	<20 s, with filter	
Measurement interval	1 s		
Start-up time	1.5 s		
IP protection	IP30	IP50	
CE / EMC conformity	2007 / 108 / EG		
FDA / GAMP	FDA CFR 21 part 11 / GAMP5		
Weight	160 g	200 g	300 g
Material	Stainless steel DIN 1.4305 (probe), POM (handle)		