

HYGROPALM21

The HP21 is the ideal instrument for humidity and temperature measurement in simple applications. The integrated HC2 probe guarantees accurate measuring results.

APPLICATIONS

Portable inspection and spot checks in HVAC, the pharmaceutical industry and building management systems.

FEATURES

- Fixed probe
- Range of application -10...60 °C / 0...100 %RH
- Accuracy: ± 1 %RH, 0.2 K, at 10...30 °C
- Calculation of dew/frost point
- Adjusted at 23 °C and 10 / 35 / 80 %RH
- Service interface (UART)
- LC display with trend indicators

Order code	HP21
Device type	Handheld instrument with integrated probe
Sensor type	ROTRONIC HYGROMER® IN-1, Pt100 1/3 Class B
Filter type	Polyethylene standard filter, 20 µm
Response time	< 5 s, without filter
Material	ABS (device), polycarbonate (probe)
Power supply	9 V battery
Weight	200 g



DELIVERY PACKAGE

- Factory adjustment certificate
- Short instruction manual
- Battery

RECOMMENDED ACCESSORIES

- | | |
|--|------------|
| • Service cable | AC3006 |
| • Polyethylene filter, gray, 20 µm | NSP-PCB-PE |
| • Calibration device for HC2A-S probe | ER-15 |
| • Desktop stand | DESK-HP |
| • Humidity standard for calibration 10 %RH | EA10-SCS |
| • Humidity standard for calibration 35 %RH | EA35-SCS |
| • Humidity standard for calibration 80 %RH | EA80-SCS |



HYGROPALM32

The HygroPalm32 can be combined without adjustment with all HC2 probes from Rotronic. It measures relative humidity and temperature, can perform all psychrometric calculations and has trend indicators as well as a hold function to freeze measured values.

APPLICATIONS

Portable inspection and spot checks in HVAC, the pharmaceutical industry and building management systems.

FEATURES

- High flexibility thanks to HC2 compatibility
- Easy use
- All psychrometric calculations
- Graphic display of saved data
- Visual and audible alarms
- Magnetic attachment, e.g. to ventilation shafts
- Programmable logging
- Professional HW4 evaluation software

Order code	HP32
Device type	Handheld instrument for interchangeable HC2 probes
Filter type	Compatible with all HC2 probes (order separately)
Material	ABS, TPR
Power supply	Integrated rechargeable battery
Weight	185 g



COMPATIBLE

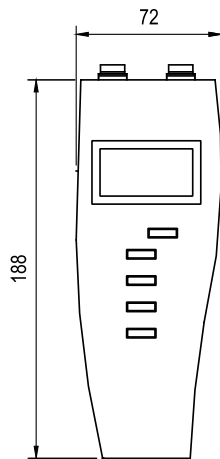
- With all Rotronic HC2 probes

DELIVERY PACKAGE

- Short instruction manual
- Soft case
- USB-Micro service cable AC0006

RECOMMENDED ACCESSORIES

- | | |
|--|------------|
| • Polyethylene filter, gray, 20 µm | NSP-PCB-PE |
| • Humidity standard for calibration 10 %RH | EA10-SCS |
| • Humidity standard for calibration 35 %RH | EA35-SCS |
| • Humidity standard for calibration 80 %RH | EA80-SCS |



HYGROPALM23-A

The HygroPalm23-A is the high-end product in our range of handheld instruments. In addition to measuring humidity and temperature, it also calculates all psychrometric parameters and provides a variety of additional functions. The HP23-A is a full-function data logger and has the capability to record measurements with a simple push of a button. In addition, all Rotronic transmitters in the AirChip3000 series can be adjusted with the HP23-A via a service cable.

APPLICATIONS

Portable applications in HVAC, the pharmaceutical industry, building management systems, etc.

FEATURES

- Two probe connections for all Rotronic HC2 probes or analog third-party probes (not included)
- Data recording function for up to 10,000 data records (with date, time, batch no.)
- Adjustment of transmitters via service cable
- All psychrometric calculations
- Battery charging function
- Service interface (USB)

Order code	HP23-A
Probe type	Compatible with all HC2 probes (not included)
Range of application	-10..60 °C / 0..100 %RH
Material	ABS
Power supply	9 V battery or rechargeable battery
Weight	200 g

Order code	HP23-A-SET
Set consists of:	Handheld instrument, HP23-A
	Standard probe, HC2A-S
	Extension cable, 2 m, E2-02A
	Calibration device, ER15
	Humidity standard for calibration 80 %RH, EA80-SCS
	HW4 software, HW4-E-Vxx
	Service cable, AC2001
	USB-A to USB-Mini cable, AC0003
	Carry case, AC1127



COMPATIBLE

- All Rotronic HC2 probes
- HF3, HF4, HF53/4/5/6, HF7, HF8 for adjustment with service cable (AC2001)
- HW4 software

DELIVERY PACKAGE

- Short instruction manual
- Battery

RECOMMENDED ACCESSORIES

- | | |
|--|------------|
| • Polyethylene filter, gray, 20 µm | NSP-PCB-PE |
| • Desktop stand | DESK-HP |
| • Humidity standard for calibration 10 %RH | EA10-SCS |
| • Humidity standard for calibration 35 %RH | EA35-SCS |
| • Humidity standard for calibration 80 %RH | EA80-SCS |
| • 5 VDC AC adapter | AC1212 |



Specifications handheld instruments			
Features	HP21	HP32	HP23-A
Probe type	Fixed probe	HC2A-xx (not included)	HC2A-xx (not included) or analog third-party probe (with cable A-02XX)
Probe interchangeable	No	Yes	Yes
Humidity / Temperature sensor	HYGROMER® IN-1 Pt100 1/3 Class B	Probe dependent	
Number of probe inputs	N/A	1	2
Measurement range (probe)	-10...60 °C 0...100 %RH	Probe dependent (chapter Probes, page 4)	
Accuracy at 10...30 °C	±1 %RH / ±0.2 K	Probe dependent (chapter Probes, page 4)	
Long-term stability	<1 %RH / year		
Response time humidity sensor	<15 s τ63	Probe dependent (chapter Probes, page 4)	
Initialization time	<2 s		
Range of application	-10...60 °C / 0...100 %RH		
Display resolution	2 decimals		
Illuminated display	Yes		
Alarm indicators	No	Yes	Yes
Battery indicator	Yes		
Real time clock	No	Yes	Yes
Functions			
Adjustment of transmitters	No	No	Yes
Adjustment via keypad	Single-point %RH & °C	Single & multi-point %RH Single-point °C	
Probe adjustment with dew point reference	No	Yes	
Calculations	Dew point / Frost point	All psychrometric parameters	
Data logging	No	8 x 8,000 measurement points	20,000 data records (2 x 10,000 pairs of measurement points)
Electrical specifications			
Power supply	9 V battery or rechargeable battery	Integrated rechargeable battery	9 V battery, rechargeable battery, USB cable, 5 VDC AC adapter
Rechargeable battery charge	No	Yes	
Battery life (typical, without backlight)	80 h	4...7 h	80 h (1 probe)
Communication interfaces	UART service cable AC3006	Micro USB Service cable AC0006	Mini USB Service cable AC0003
Max. length probe cable		5 m	
Mechanical specifications			
Housing material	ABS (housing), polycarbonate (probe)	ABS, TPR (housing)	ABS (housing), polycarbonate (probe)
Dimensions	274 x 72 x 35 mm	150 x 65 x 31 mm (without probe)	188 x 72 x 35 mm (without probe)
Weight	200 g	185 g	200 g
CE / EMC directives	2014/30/EU		
FDA / GMP compatibility	FDA 21 CFR Part 11 / GAMP 5-compliant HW4 software		
IP protection class	IP40	IP65	IP40