HYGROCLIP XD



THE MOST VERSATILE HYGROCLIP2 PROBE YET

LATEST AIRCHIP 3000 DIGITAL TECHNOLOGY

- Measures relative humidity & temperature
- Calculates dew/frost point
- Power supply range: 5...16 VAC / 5...24 VDC
- Outputs: 0...1 V / 0...5 V / 0...10 V (standard probes)
 0...1 V / 0...5 V / 0...10 V / 0...20 mA / 4...20 mA (industrial probes)
- Voltage outputs configurable via software
- Highest precision and reproducibility
- Excellent long-term stability <1 %RH / year
- Digital interface for calibration and measurement processing





TECHNICAL INFORMATION

Versions

The HygroClip XD is available as standard probe or as industrial probe with remote sensor. The standard versions come in the colors black or white.

Standard versions

XD33A-S3X Standard housing, black

0...1 V, -40...60 °C, UART

XD33A-W3X Standard housing, white

0...1 V, -40...60 °C, UART

Industrial versions

XD33-SC12D6 Industrial housing, 2 m cable

0...1 V, 0...150 °C, UART

XD33-SC15D6 Industrial housing, 5 m cable

0...1 V, 0...150 °C, UART

Other configurations on request

Analog output 0...1 / 5 / 10 V, 0 / 4...20 mA

Interface UART or RS-485 Scale Freely scalable

Typical accessories

XD-AC3001 Service cable to PC

E2-02XX Extension cable with open

ends, 2 m long, black

E3-02XX Extension cable with open

ends, 2 m long, white

HW4 HW4 software for adjustment

of the probe

NSP-PCB-PE40 Polyethylene filter, gray SP-S15 Steel sinter filter (ind. probe)

ER-15 Calibration device

EAxx-SCS Humidity standards (xx = %RH)

Note:

Dimensions Standard probe

The XD probe is **NOT** compatible with ROTRONIC transmitters, data loggers, handheld instruments and active cables.

	Standard probe	Industrial probe
General specifications		
Device type	Humidity / Temperature probe	
Range of application measurement	-4085 °C / 0100 %RH	-100200 °C * / 0100 %RH
probe		*Short-term peak load
Accuracy at 23 °C, ± 5 K	0.8 %RH / 0.2 K @ 524 VDC	
	Adjusted at 23 °C and 10, 35, 80 %RH @ 5 VDC	
Outputs	Analog (voltage / current), digital (UART / RS-485)	
Power supply	516 VAC / 524 VDC (01 V)	
	1216 VAC / 1624 VDC (all kind of output signals)	
IP protection	IP65	
Technical information		
Current consumption	7 mA (typical) @ 24 VDC, 010 V	
	12 mA (typical) @ 5 VDC, 01 V	
Range of application electronics	-4085 °C / 0100 %RH	
Functions		
Psychrometric calculations	Dew point / Frost point	
Adjustment via software	Single point, multipoint, dew point (%RH / °C), with service	
	cable	
Probe		
Filter	Polyethylene, 40 μm	No filter ex works
Filter carrier	Polycarbonate	Brass, nickel-plated
A4 : 1 1 1:	100	0 / 111 / 511

Filter	Polyethylene, 40 μm	No filter ex works
Filter carrier	Polycarbonate	Brass, nickel-plated
Maximum wind velocity	20 m/s,	3 m/s, without filter
	with polyethylene filter	
Length of extension cable	2 m / 5 m	
Maintenance / Calibration	Annual calibration (recommended)	
Humidity sensor	HT-1	IN-1
Temperature sensor	Pt100 1/3 Class B	
Analog output	01/5/10V	01/5/10V
		0 / 420 mA
Digital output	UART or RS-485	
Analog output	Accuracy at 23 °C, < 1 mV (1 V) / <10 mV (10 V) / <20 μA	
Response time τ63	<15 s	
Long-term stability, humidity sensor	<1 %RH / year	
Conformities / Housing		-
CE / EMC compatibility	CE conformant 2014/30/EU	
FDA / GAMP conformity	21 CFR Part 11 / GAMP 5	
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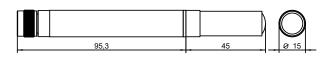
CE / EMC compatibility CE conformant 2014/30/EU FDA / GAMP conformity 21 CFR Part 11 / GAMP 5 Housing material Polycarbonate PEEK Dimensions probe head Diameter Ø15 mm

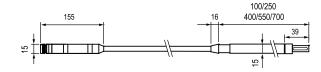
140 mm

Industrial probe

Length

Sensor cable





Opt immediately for the HygroClip 2 with integrated AirChip3000 for your temperature and humidity measurements. You can find detailed information on our probes at www.rotronic.com. We will also be glad to advise you on the telephone or in our showroom.



100 mm / 250 mm

2 m / 5 m

400 mm / 550 mm / 700 mm