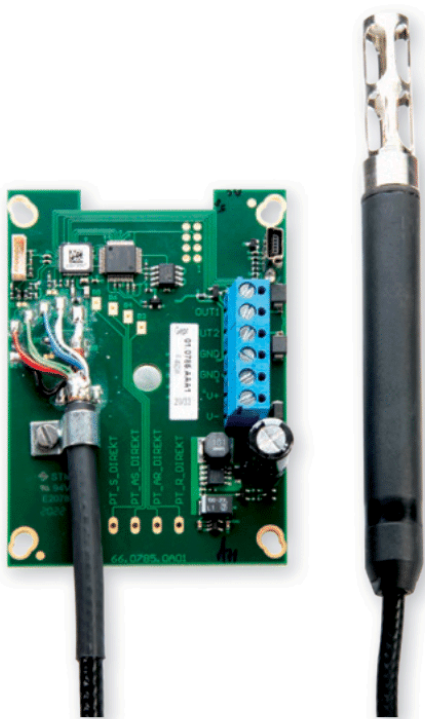


Transmitter

# XB32A OEM



### Benefits

- Measures relative humidity, temperature and dew point
- Absolute repeatability guaranteed
- Freely programmable and scalable analog outputs

### Applications

- Environmental and climate Chambers
- Monitoring of drying and pasteurization processes
- Incubators and biological grow
- Manufacturer of pharmaceutical equipment



## GENEREL INFORMATION

The XB32A OEM transmitter consists of a cable probe and PCB without housing. Thanks to its compact size, high accuracy and various selection possibilities, the transmitter can be adapted to customer wishes and used practically everywhere.

#### Power supply

- 15...40 VDC/12...28 VAC

#### Outputs

- The 2 analog outputs are freely selectable and scalable
- 3 wire version with dew point / frost point calculation

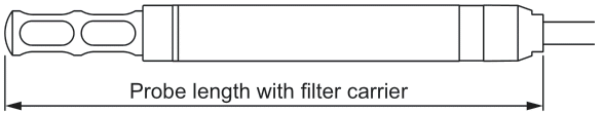
#### Probe

- Fix mounted PPS cable probe for duct mounts
- 15 mm diameter only available
- 3 different lengths of probes

## FIXED PROBE FOR XB32A OEM

### Industrial fix probe with different extensions

- Range of application: 0...100 %rh, - 100...200 °C<sup>1</sup>
- Accuracy: ± 1.0 %rh / 0.2 K @ 23 °C
- Humidity sensor: HYGROMER® HT-1
- Materials: PPS, stainless steel 1.4301



Extension order code	Probe diameter	Probe length	Probe length with filter carrier
P0	Ø 15 mm	70 mm	114 mm
P1		100 mm	144 mm
P3		250 mm	294 mm



Delivery package: With filter carrier (SPA-SS), without filter. Filters must be purchased additionally.

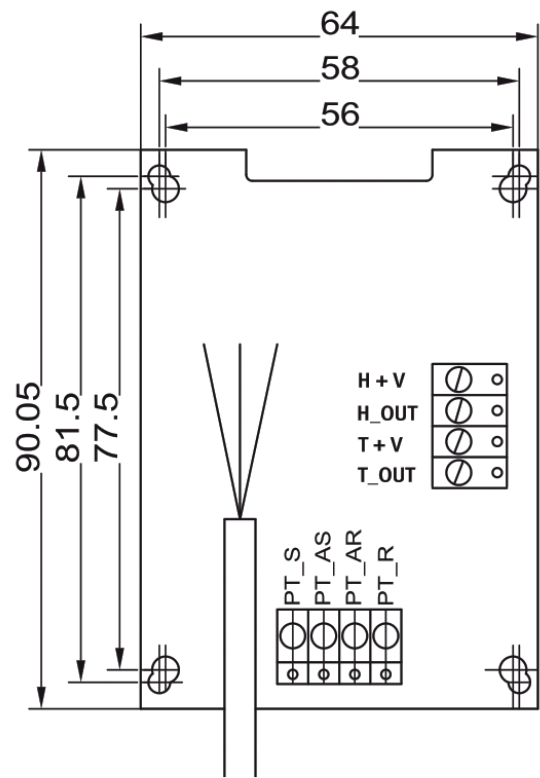
FILTERS FOR XB32A OEM

Order code	Filter carrier	Filter element	Pore size	Application range
SPA-PCB-PE	Polycarbonate, black	Polyethylene, white	40-50 µm	-50...100°C
SPA-PCB-PTFE		PTFE, white	10 µm	
SPA-PCB-WM		Wire mesh 1.4401	10 µm	
SPA-PCW-PE	Polycarbonate, white	Polyethylene, white	40-50 µm	
SPA-PCW-PTFE		PTFE, white	10 µm	
SPA-PCW-WM		Wire mesh 1.4401	10 µm	
SPA-PE	No filter carrier, only filter	Polyethylene	40-50 µm	-100...200 °C
SPA-PTFE		PTFE, white	10 µm	
SPA-WM		Wire mesh 1.4401	10 µm	
SPA-SS-WM	1,4301			
SPA-SSS	Sintered steel, 1.4404 (carrier and filter)		25 µm	
SPA-SS-PFTE		Teflon	10 µm	
SPA-SS		No filter	-	

Standard recommendation: SPA-SSS

TECHNICAL INFORMATION

XB32A OEM series



	XB32A 3-wire
Humidity sensor	ROTRONIC HYGROMER® HT-1
Temperature sensor	PT100 1/3 Class B
Accuracy at 23 °C	± 1.0 %rh / 0.2 K
Resolution AirChip3000	<0.02 %rh / 0.01 K
Long-term stability humidity sensor	<1 %rh / year
Measurement range	-100...200 °C <sup>1</sup> / 0...100 %rh (non-condensing)
Electronics operating range	-40...85 °C / 0...100 %rh
Output signals	Yes
Output signals (analog)	Freely scalable by user 0...1 V, 0...5 V, 0...10 V, 0(4)...20 mA
Calculation	Dew point or frost point, freely scalable
Power supply	15... 40 VDC / 12 ...28 VAC
Circuit type	3 wire
Load per analog output	V-signal: ≥1 kΩ/V mA-signal: ≤500 Ω
Load compensation	Yes
Firmware upgradable	Yes, via HygroSoft Software
Sensor diagnostics (drift, state)	Programmable. Default: Off
Humidity adjustment	1-point or multi-point humidity adjustment / calibration
Temperature adjustment	1-point or 2-point temperature adjustment / calibration
PC interface, UART	Yes, HygroSoft Software-compatible
Cable connections	1 x M16 x 1.5, to terminals
Standards	CE conformity 2014/30/EU
Audit trail, electronic records	Conforms to FDA 21 CFR Part 11 and GAMP
IP protection & fire protection class	IP65 / Corresponds to UL94-HB

<sup>1</sup> Peak load: For 100 hours between 190 °C and 200 °C.  
Maximal permissible continuous load: 190°C.