

HF73A



HF7 duct version

BENEFITS

- Measures relative humidity, temperature and dew point
- Absolute repeatability guaranteed
- Freely programmable and scalable analog outputs
- Robust industrial housing for harsh conditions

APPLICATIONS

- Industrial and outdoor environments with harsh conditions
- Food and pharmaceutical production
- Drying processes



Power supply

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

Proven housing

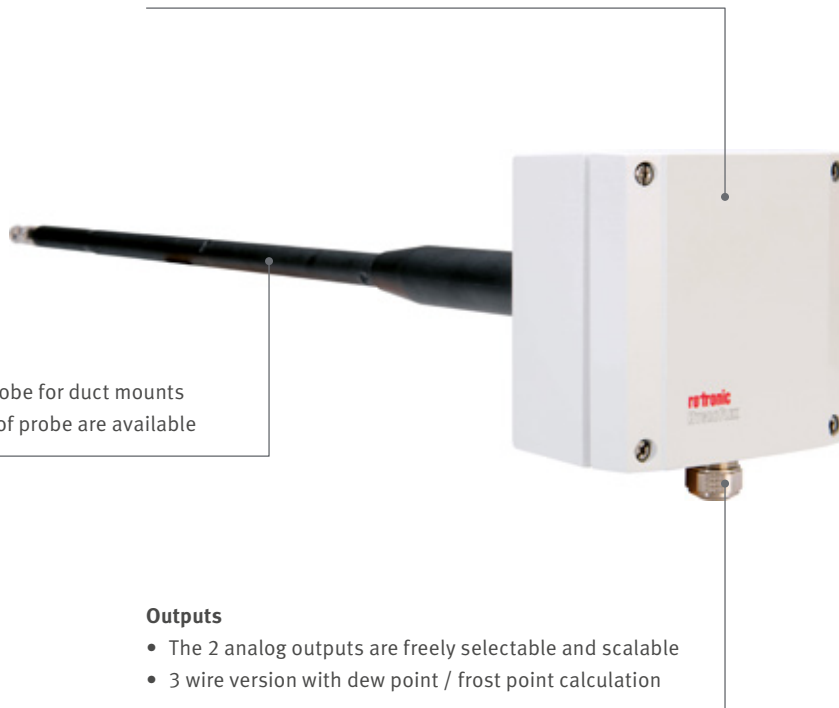
- Robust, industrial aluminium housing
- Duct mounting

Probe

- Fix mounted PPS probe for duct mounts
- 3 different lengths of probe are available

Outputs

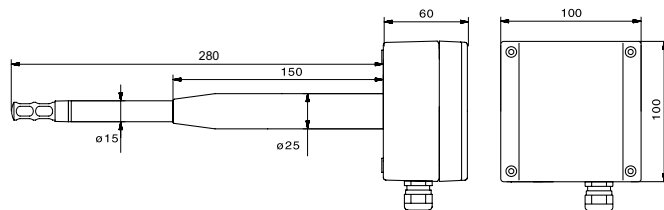
- The 2 analog outputs are freely selectable and scalable
- 3 wire version with dew point / frost point calculation



FIXED PROBE FOR HYGROFLEX HF73A

INDUSTRIAL FIX PROBE WITH DIFFERENT EXTENSIONS

- Range of application: 0...100 %rH, - 100...200 °C¹
- 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	Housing transmitter
S	∅ 25 / 15 mm	280 mm	100 x 100 mm
1		430 mm	
2		580 mm	



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

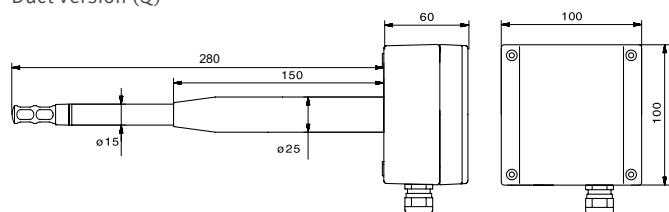
FILTERS FOR HF73A

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		
SPA-PCW-PE	Polycarbonate, white	Polyethylene, white	40-50 µm	
SPA-PCW-PTFE		PTFE, white	10 µm	
SPA-PCW-WM		Wire mesh 1.4401		
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		
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: SPA-SSS

TECHNICAL INFORMATION

HF73A series Duct version (Q)



	HF73A 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 ¹ / 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 HW4 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
External memory function for logging	Yes, 2000 data point memory
PC interface, UART	Yes, HW4-compatible
Housing material	Aluminum
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

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