

HYGROFLEX1



Benefits

- Rotronic Hygromer® IN-1 humidity sensor
- Accuracy wall and duct version $\leq \pm 2\% \text{RH}$ (10...90 %RH)
- Adjustable at 35 %RH and 80 %RH

Applications

- Heating, ventilation and air conditioning



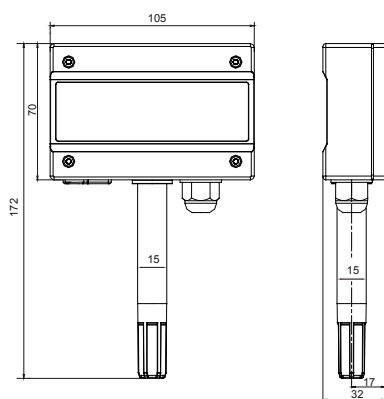
TECHNICAL INFORMATION

The HygroFlex1 series is the latest development in inexpensive HVAC transmitters for relative humidity and temperature. The devices are equipped with the tried-and-tested Rotronic Hygromer® IN-1 sensor and boast unbeatable value for money. The Rotronic HygroSoft software enables you to change the scale, calibrate the transmitter and adjust the humidity.

Dimensions

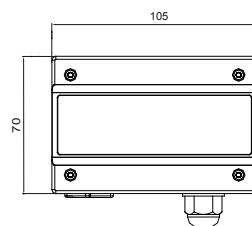
Wall version

Type W



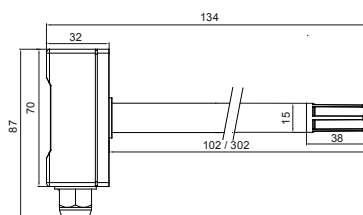
Duct version

Type D / Probe length 100 mm



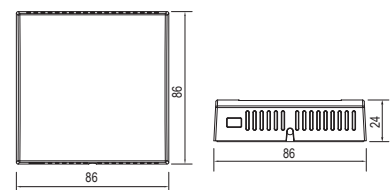
Duct version

Type F / Probe length 300 mm



Space mount version

Type S



TECHNICAL INFORMATION

General	
Transmitter type	2-wire type: HF120 3/4-wire type: HF13x
Supply voltage	12...28 VAC / 15...40 VDC
Current consumption	2-wire maximum 40 mA 3/4-wire with voltage output: < 15 mA with current output: < 55 mA
Parameters	Humidity and/or temperature
Housing material / IP	ABS / IP 65 (space mount version IP30)
Fire protection class	Housing: Corresponds to UL94-HB
Weight	Wall version type W: 140 g Duct version 100 mm type D: 140 g Duct version 300 mm type F: 200 g Space mount version type S: 90 g
Sensors integrated in device	Yes
Operating and measurement range	-20...50 °C (Type S), -20...60 °C (Type W, D, F) 0...100 %RH (non-condensing)
CE / EMC compatibility	2004/108/EC

Humidity measurement	
Humidity sensor	Rotronic Hygromer® IN-1
Accuracy type W & type D at 23 °C ± 5 K	< ± 2 %RH (10...90 %RH)
Accuracy type S at 23 °C ± 5 K	< ± 3 %RH (10...90 %RH)
Long-term stability	< 1.5 %RH per year
Response time τ_{63}	30 s (63 % of a rise 35...80 %RH) without filter
Temperature measurement	
Sensor	Thermistor
Standard temperature scale	0...50 °C or 0...100 °F
Precision at 23 °C ± 5 K	± 0.3 °C, type S ± 1 °C
Response time	4 s
Outputs	
Number	2 analog outputs freely scalable
Current	4...20 mA
Voltage	0...1/5/10 VDC

STANDARD VERSIONS

Wall version	Type	Output	Temperature scaling	Display
HF120-WB1XX1XX	2-wire	4...20 mA	0...50 °C	No
HF132-WB1XD1XX	3-wire	4...20 mA		Yes

Space mount version	Type	Output	Temperature scaling	Display
HF120-SB1XDXXX	2-wire	4...20 mA	0...50 °C	Yes
HF132-SB1XDXXX	3-wire	4...20 mA		Yes

Duct version: 100 mm probe	Type	Output	Temperature scaling	Display
HF132-DB1XX1XX	3-wire	4...20 mA	0...50 °C	No
HF135-DB1XX1XX		0...10 VDC		No
Duct version: 300 mm probe	Type	Output	Temperature scaling	Display
HF120-FB1XX1XX	2-wire	4...20 mA	0...50 °C	No

Other configurations are available from an order quantity of 100 units.

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