



Flow and Temperature Sensor HVAC 100

High-quality flow sensor for air and gases



- Easy-to-Install, without alignment to flow direction, variable immersion depth, extendable
- Integrated evaluation electronics in the sensor tube
- Operating status display via LED
- Maintenance-Free, robust and longterm stable
- Easy-to-Clean (anti-dust-design)

D-EN-HVAC-20190402



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For many applications such as ventilation systems, the measurement of the flow rate and the temperature is required to ensure energy-efficient operation.

The measuring ranges of the HVAC 100 were adapted to the needs of the ventilation technology.

Its ease of installation ensures an economical installation of the sensor.

Features

- Easy-to-Install, without alignment to flow direction, variable immersion depth, extendable
- Integrated evaluation electronics in the sensor tube
- Operating status display via LED
- Maintenance-Free, robust and longterm stable
- Easy-to-Clean (anti-dust-design)

Applications

- Ventilation, exhaust and air-conditioning systems
- Control of supply air and exhaust air in fume chambers
- Filter monitoring

Order information

- HVAC 100 – 2,5 m/s
- HVAC 100 – 10 m/s
- HVAC 100 – 20 m/s
- Extension tube, extending length 85 mm





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Technical data	
Measuring parameters	standard velocity w_N of air, based on standard conditions 20°C and 1013.25 hPa medium temperature T_M
Medium to be measured	air and gases
Measuring range w_N Measuring accuracy ¹⁾ w_N	0 ... 2.5 m/s ± (4 % of meas. value + 0.05 m/s) 0 ... 10 m/s ± (4 % of meas. value + 0.2 m/s) 0 ... 20 m/s ± (4 % of meas. value + 0.4 m/s)
Lower detection limit w_N	0.2 m/s
Reproducibility w_N	± 1.5 % of measured value
Measuring range T_M	0 ... +60 °C
Measuring accuracy T_M ($w_N > 2$ m/s)	± 1 K (10 ... 30 °C); ± 2 K in remaining interval
Response time (t_{90}) w_N	approx. 10 s (jump from 0 to 5 m/s)
Operating temperature	-10 ... +60 °C
Humidity range	0 ... 95 % rel. humidity (RH), non-condensing
Operating pressure	atmospheric (700 ... 1,300 hPa)
Operating voltage U_B	24 V DC ± 20 %
Current consumption	typ. < 35 mA (max. 80 mA)
Analog outputs	0 ... 10 V
Burden	$R_L \geq 10$ kΩ; $C_L \leq 1$ nF
Electrical connection	non-detachable connecting cable, pigtail, length 2 m, 4-pin 0.25 mm ² , PVC
Cable length (recommended)	15 m max.
Type of protection	IP 40
Protection class	III (SELV)
Min. immersion depth (MID)	35 mm
Dimensions	ø 12 mm, probe length 144 mm
Material	PC, ABS, nickel-plated brass
Weight	50 g (probe)
Delivery content	Probe, mounting clamp, extension tube, manual

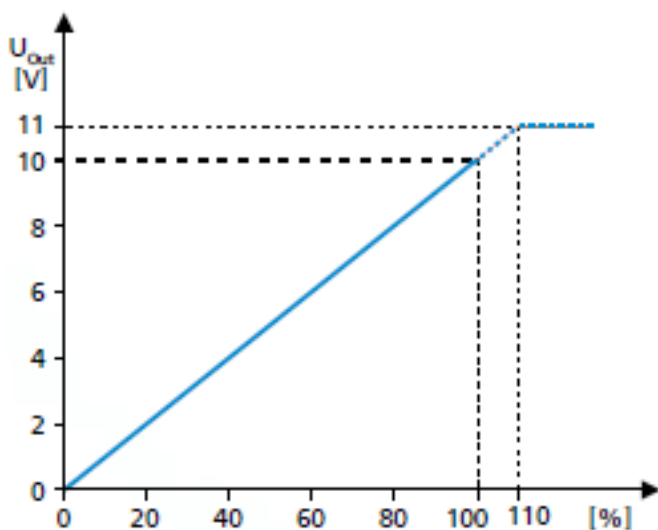
¹⁾ under conditions of the reference



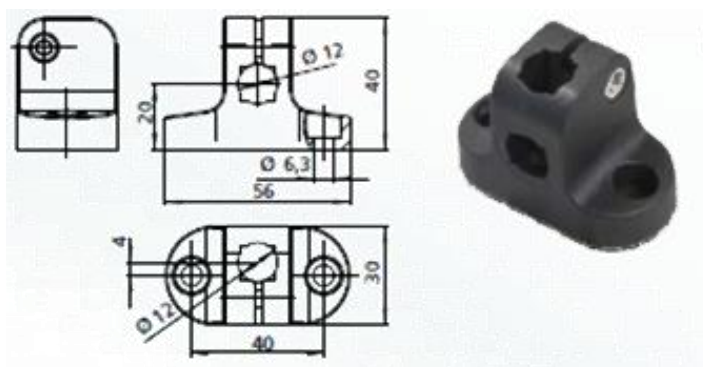
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Representation of the analog signal (W_N , T_N)



Mounting clamp

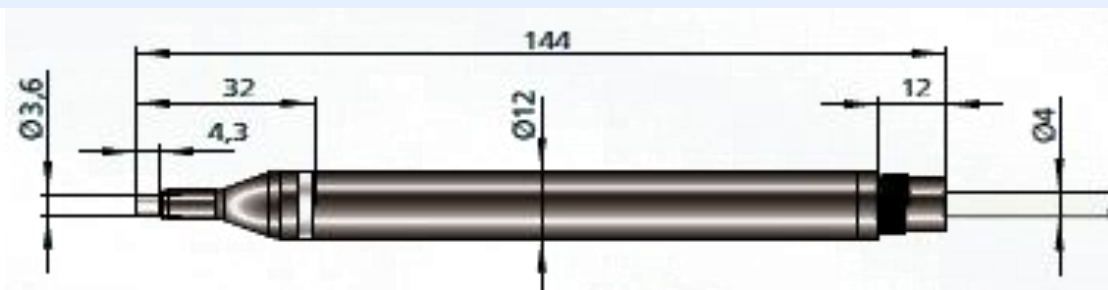


Extension tube



L = 85 mm

HVAC 100 dimensions



Important instructions!

Technical changes and errors reserved.

Pictures can be similar.

The operating instructions belonging to this device must be observed! Download at www.schmidt-messtechnik.com.