

AVM 160 - 400

AIR FLOW MEASUREMENT UNIT

AVM 160-400 is an air flow measurement unit for ventilation ductwork. The measuring unit consists of a round casing, a speed sensor and a transmitter. The casing of the measuring unit is made of Aluzink material or acid-resistant steel.

The measuring unit AVM sends a calibrated current or voltage signal that corresponds to the air volume or air flow.

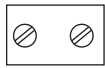


TEKNISET TIEDOT

Operating voltage	24 VAC \pm 15%, 50-60 Hz
Connection power	3 VA
Measuring range (settable)	0/5 ... 15 m/s (settable) 0-5 m/s 0-10 m/s 0-4000 m ³ /s
Analog output message	0-10 V (min. 1000 Ω) 0 (4) - 20 mA (max. 500 Ω)
Temperature dependence	max. 0.1%/°C (calibr. at 20°C)
Reliability	max. 0.5% of the reading
Linearity	\pm (5% of reading + 0.1 m/s)
Time constant	t 0.67 = 3 or 10 seconds
Operating temperature	0 °C ... +50 °C
Humidity area	max 90% RH
Housing	ABS plastic, IP 44
Material of the sheath	Aluzink AZ 185 or, on request, acid-resistant steel SIS 2343

CIRCUIT DIAGRAM

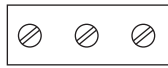
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24 VAC



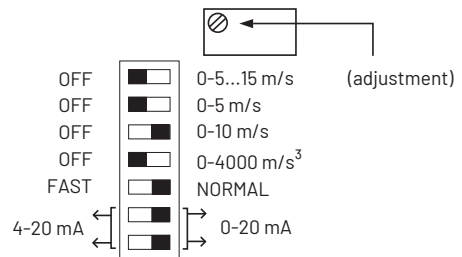
3 4 5



Output: current 0(4)-20 mA

Output: voltage 0-10 V

Common (minus)



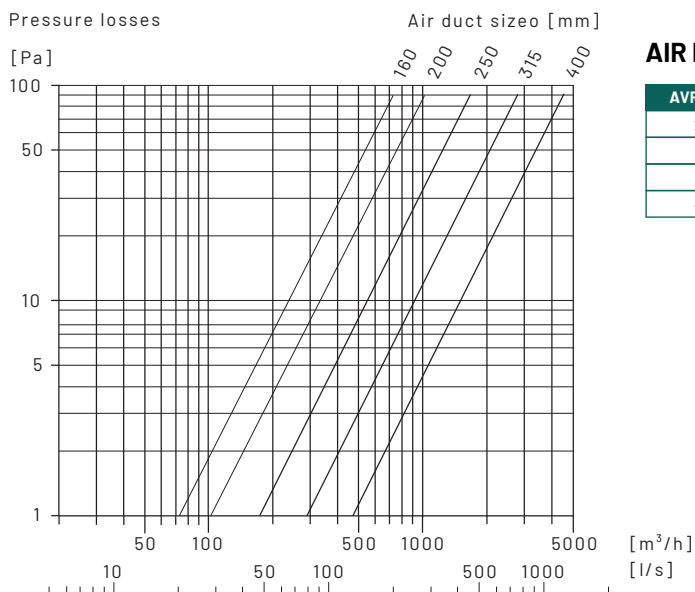
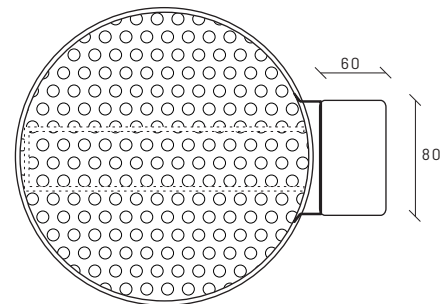
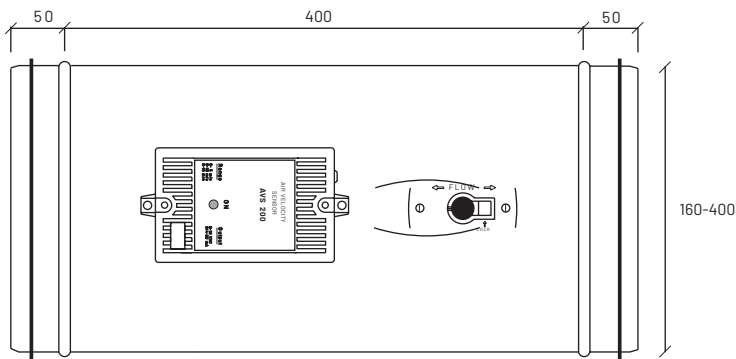
Factory settings:

Range: 0-4000 m³/s

Current message: 0-20 mA

Time response: 10 sec.

DIMENSIONING [mm]



AIR FLOW RECOMMENDATIONS

AVR / AVM	l/s (1...7 m/s)
200	30 - 250
250	50 - 350
315	80 - 600
400	130 - 850

AVR: choose the largest possible duct size without going below the lowest air flow

AVM: select the smallest possible channel size

Attention! Choose the device at most one duct size smaller / larger than the associated air duct!