

## Air Velocity Transmitter for Measurement of Lowest Velocity

### Special Features:

- Measurement Down to 0m/s
- Low Angular Dependence
- Easy Installation



### Applications:

AV66 air velocity transmitter series are designed for high accuracy measurement of lowest air velocities. It is the ideal solution for laminar flow control and special ventilation applications. The AV thin film sensor is operating on an innovative hot film anemometer principle. This guarantees excellent accuracy for air velocity down to almost 0.15m/s, which is not possible for conventional anemometers with commercial temperature sensors or NTC bead thermistors. The AV66 sensor is much more insensitive to pollution than all other anemometer principles. This increases reliability and reduces maintenance costs. AV66 series are available with current or voltage output, the measuring range and the response time can be selected with jumpers by the user. Low angular dependence enables easy, cost-effective installation. An integrated LC display and a version with remote sensing probe are also available.

### Specifications:

#### Measuring values

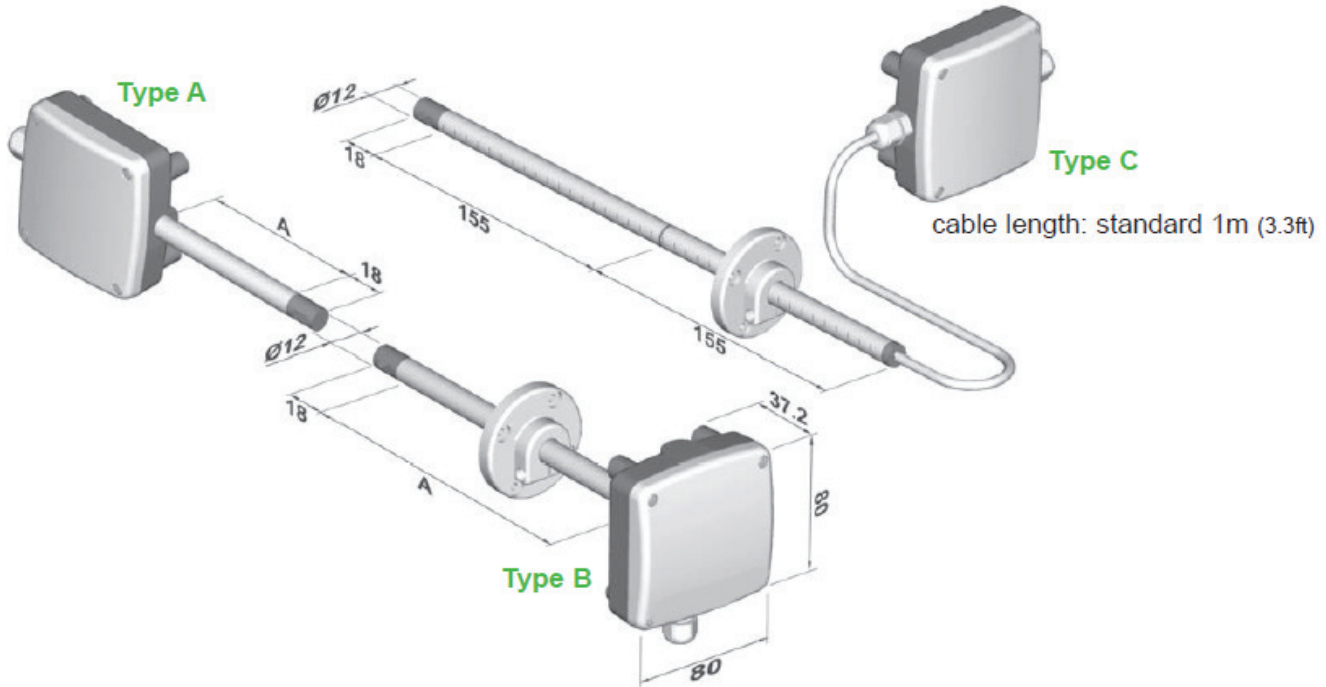
Working range <sup>1)</sup>	0...1m/s (0...200ft/min)	
	0...1.5m/s (0...300ft/min)	
	0...2m/s (0...400ft/min)	
Output <sup>1)</sup> 0...1m/s / 0...1.5m/s / 0...2m/s	0 - 10 V	-1mA < I <sub>L</sub> < 1 mA
	4 - 20 mA	ρ <sub>R</sub> < 450 (linear, 3 wires)
Accuracy at 20°C (68) F45%RH and 1013 hPa	0.15...1m/s (30...200ft/min)	± (0.04m/s / 7.9ft/min + 2 % of m. v.)
	0.15...1.5m/s (30...300ft/min)	± (0.05m/s / 9.8ft/min + 2 % of m. v.)
	0.15...2m/s (30...400ft/min)	± (0.06m/s / 11.8ft/min + 2 % of m. v.)
Response time T <sub>90</sub> <sup>1)2)</sup>	typ. 4 sec. or typ. 0.7 sec.	(at constant temperature)

#### General

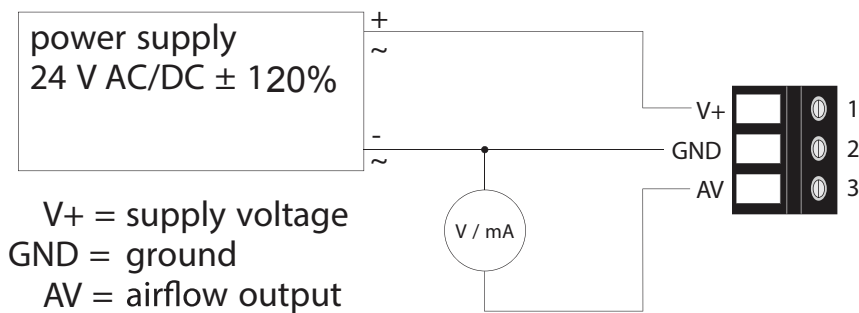
Power supply	24V AC/DC ± 20 %	
Current consumption for AC supply for DC supply	max. 150mA	
	max. 90 mA	
Angular dependence	< 3 % of measurement at  α  < 10°	
Cable gland	M16x1.5	cable Ø 4.5 - 10 mm (0.18 - 0.39")
Electrical connection	screw terminals max. 1.5mm <sup>2</sup> (AWG16)	
Electromagnetic compatibility	EN61326-1	
	EN61326-2-3	
Housing/ protecting class	Polycarbonate/ IP65, Nema 4; with LC display: IP40; remot sensor probe: IP20	
Temperature range	working temperature probe	-25...50°C (-13...122°F)
	working temperature electronic	-10...50°C (14...122°F)
	storage temperature	-30...60°C (-22...140°F)

## Air Velocity Transmitter for Measurement of Lowest Velocity

1 mm = 0.03937" / 1" = 25.4 mm



### Connection Diagram:



## Air Velocity Transmitter for Measurement of Lowest Velocity

### HOW TO ORDER

**MODEL:** AV66

Velocity ⚙️

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**HOUSING:** A

A Wall mounting      B Duct mounting      C Remote sensor probe ⚙️

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**PROBE LENGTH:** 3

3 100mm (3.9")      5 200mm (7.9")      X Others ⚙️

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**CABLE LENGTH** K200

No code 1m (3.3ft)      K200 2m (6.6ft)      K500 5m (16.4ft)      K1000 10m (32.8ft) ⚙️

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**DISPLAY:** D02

No code without display      D02 with display ⚙️

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Ordering Example : AV66 - V - A - 3 - K200 - D02