

SERIES EE65/EE66

TRANSMITTERS FOR AIR VELOCITY

Exact and true measurement of air velocity even down to nearly 0 m/s is a chief characteristic of the EE65/EE66 series.

A directional independence over a wide range enables simple and cost-effective installation. Along with smallest dust sensitivity and highest flexibility to different demands the instruments offer a lot of special features for a huge number of applications.

The measuring method is based on the hot film anemometer principle, using a special thin film sensor element developed by E + E ELEKTRONIK.

All elements required for evaluation and linearisation are integrated within the housing. By simply changing a jumper it is possible to adjust the working range, the analogue output and the response time to your application requirements.



sensor-probe in detail

Working range: **EE65:** 0 ... 10, 0 ... 15 or 0 ... 20 m/s
EE66: 0 ... 1, 0 ... 1,5 or 0 ... 2 m/s

Response time t_{90} : 2 sec. or 0.2 sec. variable

Output signal: voltage 0-10 V or current 4-20 mA

There are different housings available, either for duct mounting applications as well as with separated sensor probe.

The transmitters can be supplied with a local LC-display on the housing cover, which shows the actual measurement readings.

TYPICAL APPLICATIONS

- | | |
|------|---|
| EE65 | <ul style="list-style-type: none"> ● HVAC ● process and environmental control |
| EE66 | <ul style="list-style-type: none"> ● clean room control ● control of laminar flow |

TECHNICAL DATA

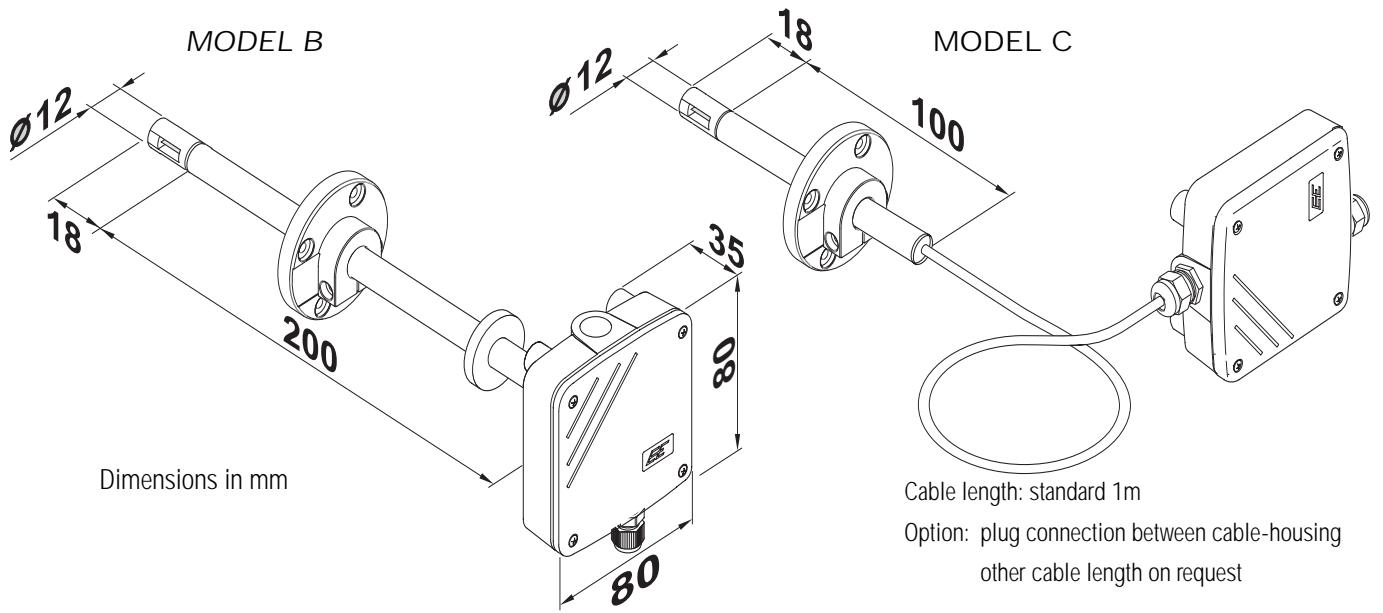
	EE65 ²⁾ 0 ... 10 m/s	EE66 ²⁾ 0 ... 1 m/s
Working range air velocity ¹⁾	0 ... 15 m/s 0 ... 20 m/s	0 ... 1,5 m/s 0 ... 2 m/s
Output signal ¹⁾	0 - 10 V < 1.0 mA 4 - 20 mA $R_i < 450 \Omega$	(linear, 3 wires)
Accuracy air velocity at 20degC, 45 % RH, 1013 hPa	working range EE65 0 ... 10 m/s $\pm(0.3 \text{ m/s} + 3\% \text{ of value})$ 0 ... 15 m/s $\pm(0.3 \text{ m/s} + 3\% \text{ of value})$ 0 ... 20 m/s $\pm(0.3 \text{ m/s} + 4\% \text{ of value})$	working range EE66 0 ... 1,0 m/s $\pm(0,06 \text{ m/s} + 2\% \text{ of value})$ 0 ... 1,5 m/s $\pm(0,07 \text{ m/s} + 3\% \text{ of value})$ 0 ... 2,0 m/s $\pm(0,10 \text{ m/s} + 3\% \text{ of value})$
Power supply	SELV 24VAC/DC $\pm 10\%$, max. 150 mA	
Response time t_{90} at 10 m/s ¹⁾	typ. 2 sec. or typ 0,2 sec.	
Angular dependence	<3% of measurement at $ \Delta\alpha < 10^\circ$	
Connection	screw terminals max. 1.5 mm ²	
electromagnetic compatibility	according to	EN 50081-1 EN 50082-2
Housing material protecting class	ABS standard: IP65 / with LC-display: IP40	
temperature range	working temperature	-10 ... 50 degC
	storage temperature	-30 ... 60 degC



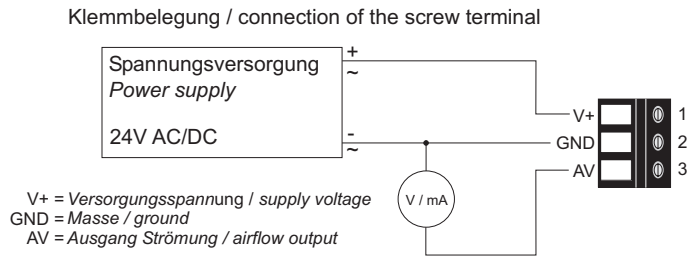
¹⁾ Selectable by setting a jumper

²⁾ At versions with LC-display the working range of air velocity has to be set to a fix range!

HOUSING



CONNECTING DIAGRAMM



ORDER INFORMATION

SERIES	
EE65	
EE66	
CODE 1	MODEL
V	velocity
CODE 2	MODEL
B	duct mounting
C	separated sensor probe
CODE 3	PROBE LENGTH
3	100 mm
5	200 mm
X	others
CODE 4	DISPLAY
no code	without display
D02	with display (please specify preferred working range)

Order example: EE65-VB5-D02, model: EE65 velocity transmitter,
model: duct mounting, probe length: 200 mm, with LC-display

ACCESSORIES

protection sleeve
for sensor probe S01



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