

AIR VELOCITY TRANSMITTER



- VELOCITY, NOT FLOW · 1 ... 50 M/S IN EIGHT RANGES
- PROBE 220 MM STANDARD · UP TO 5000 MM
- 0 ... 10 V · 4 ... 20 MA · 13 ... 24 V AC OR DC

KEY DATA

Property	Value	Property	Value
Measured quantity	Air velocity in m/s — not flow	Range	1 · 2 · 5 · 10 · 20 · 30 · 40 · 50 m/s
Accuracy	± 0.2 m/s + 3 % of reading	Resolution	0.05 m/s
Output	0 ... 10 V · 4 ... 20 mA · 0 ... 5 V or RS485 as a special	Supply voltage	13 ... 24 V AC or DC · 50 Hz
Ambient temperature	-5 ... +70 °C	Humidity	0 ... 90 % RH, no condensation
Probe length	220 mm standard	Terminals	Three screw terminals for 1.5 mm²

This device measures a velocity, not a flow: to obtain a volume flow, the cross-section of the duct and a profile factor are needed.



MEASUREMENT

Measured quantity	Air velocity in m/s
Range	1, 2, 5, 10, 20, 30, 40 or 50 m/s — chosen in the order code
Accuracy	± 0.2 m/s plus 3 % of the measured value
Resolution	0.05 m/s
Compensation	Linear and temperature compensation, digital
Zero drift	No zero drift · excellent long-term stability

ELECTRICAL PROPERTIES

Supply voltage	13 ... 24 V, alternating or direct · 50 Hz
Output signal	0 ... 10 Vdc or 4 ... 20 mA · 0 ... 5 V and RS485 as non-standard
Terminals	Three screw terminals for 1.5 mm ²
Cable length	70 m with 0.5 mm ² · 200 m with 1 mm ² · 300 m with 1.5 mm ² , type BVVR

MATERIALS AND PROCESS

Housing	High temperature and corrosion resistant
Probe length	220 mm as standard · below 1500 mm to order · up to 5000 mm as a non-standard length
Ambient temperature	-5 ... +70 °C
Humidity	0 ... 90 % RH, no condensation

RANGES

The codes 01, 02 and 05 have two digits, 010 to 050 have three.

RANGES

Code	Range	Code	Range
01	1 m/s	020	20 m/s
02	2 m/s	030	30 m/s
05	5 m/s	040	40 m/s
010	10 m/s	050	50 m/s



COMPLIANCE AND CERTIFICATION

Measured quantity	Velocity in m/s
Accuracy	± 0.2 m/s plus 3 % of reading

Example: QGKM-010. Output signal, probe length, process connection and housing are not part of the order code and have to be agreed with every enquiry.

ORDER CODE

Field	Code	Meaning
1 Series	QGKM	QGKM air velocity transmitter
2 Range	01 · 02 · 05	1 · 2 · 5 m/s
	010 · 020	10 · 20 m/s
	030 · 040 · 050	30 · 40 · 50 m/s

