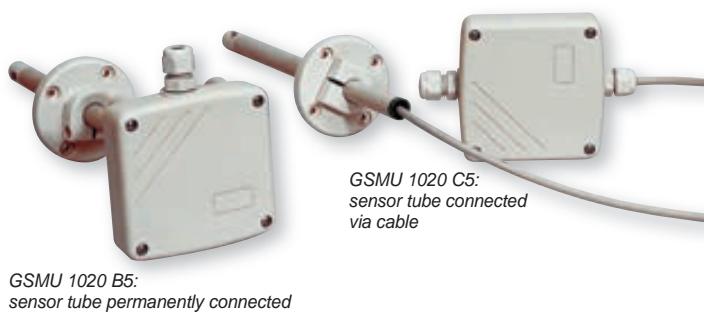


Air flow measuring transducer



GSMU 1020 B5

Air flow measuring transducer

GSMU 1020 C5

Air flow measuring transducer

General:

- 3 measuring ranges integrated in each device
- selection between 2 different response times
- high accuracy
- almost independent of flow direction
- shock resistant
- resistant to pollution

Application:

air conditioning and ventilation technology, process and environmental technology

Measuring principle: no moving parts. Hot-film anemometer principle.

Specification:

Measuring range flow:

GSMU 1020..: 0 ... 10 m/s, 0 ... 15 m/s and 0 ... 20 m/s
Measuring range can be set by means of jumper.

Output signal: 0 - 10 Volt (Iout < 1.0 mA) or
4 - 20 mA (Ri < 450 Ohm)
Output signal can be set by means of jumper.

Measuring accuracy: (at 20 °C, 45 % RH, 1013 hPa)

0 ... 10 m/s: ± 0.2 m/s ± 3 % of measured value
0 ... 15 m/s: ± 0.2 m/s ± 3 % of measured value
0 ... 20 m/s: ± 0.2 m/s ± 4 % of measured value

Response time: T₉₀ (at 10 m/s) typ. 4 s or 0.2 s
Response time can be set by means of jumper.

Dependency on flow direction: < 3 % of measured value at $\Delta\alpha < 10^\circ$

Voltage supply: 24 V AC / DC ±20 %, max. 150 mA

max. load: 500 Ohm

Connection: screw-type terminals up to 1.5 mm²

Operating temperature: -10 ... +50 °C

Storage temperature: -20 ... +60 °C

Housing: 80 x 80 x 35 mm (H x W x D)

Material: ABS

Protection rating: IP65 (electronic box)

Sensor tube: length = 200 mm (+18 mm for sensor head), Ø 12 mm

GSMU...B5: sensor tube permanently connected to housing

GSMU...C5: sensor tube connected to housing via cable (approx. 1 m long); Other tube or cable lengths upon request.

Electromagnetic Compatibility (EMC): Conforming to **CE** acc. to DIN EN 50081-1 and DIN EN 50082-2

Accessories and spare parts:

GNG 24/150

power supply: 24 VDC, 150 mA

GNP 0520

mains transformer: 230 V~ to 24 V~, with mounting clamp and screw-type terminals. Dimensions approx. 62 x 56 x 32.5 mm

Miniature Air Velocity Transmitter



GSMU 575

Miniature Air Velocity Transmitter

General:

The transmitter is for measuring air velocity. The measurement method is based on the hot-film anemometer principle, for that purpose, a special thin-film sensor element has been developed. An accurate and reliable determination of the air velocity depends on the correct positioning of the sensor probe in the air stream. Accurate measurements are only possible if the sensor probe is installed where there is no turbulence.

Application:

- heating, ventilating
- air conditioning technology
- supply air control of ovens

Specification:

Working range: 0 ... 20 m/s
other upon request

Output signal: 0 ... 10 V (max. 1 mA)

Accuracy: at 20 °C / 45 % RH, 1013 hPa, at 1 ... 20 m/s
±(0.4 m/s + 6 % of measured value)

Response time: typ. 4 s
(at 10 m/s T₉₀)

Power supply: 19 ... 29 V DC

Power consumption: max. 70 mA

Temperature range: working temperature: -20 ... 60 °C
storage temperature: -30 ... 60 °C

Connection: 0.5 m cable, PVC 3 x 0.25 mm², wire end ferrule

Electromagnetic Compatibility (EMC): EN61326-1

EN61326-2-3

Housing: Polycarbonate, length: 120 mm, Ø 12 mm

Protection class: IP20 (measuring head), IP40 (housing)

Accessories and spare parts:

GNG 24/150

power supply: 24 VDC, 150 mA