FLOW

TEMPERATURE

HUMIDITY

CONDUCTIVITY

FS5

Thermal Mass Flow Sensor

Optimal for various gas flow applications

INNOVATIVE SENSOR TECHNOLOGY

Benefits & Characteristics

- Easy adaptation in various applications and housings
- Simple signal processing
- Simple calibration
- No moving mechanical parts
- Excellent reproducibility
- Excellent long-term stability
- Bare sensor element resists up to 450 °C
- Stable platinum technology
- Customer specific sensor available upon request

Illustration

Technical Data

Dimensions (L x W x H in mm):*	7 x 2.4 x 0.15 / Ø 6.0 , L = 14
Operating measuring range:	0 m/s to 100 m/s
Response sensitivity:	0.01 m/s
Accuracy:	< 3 % of the measured value (dependent on the electronics and calibration)
Response time t_{63}:	< 2 s
Temperature range:*	-20 °C to +150 °C
Temperature sensitivity:	< 0.1 % / K (dependent on the electronics)
Wire:*	3 pins, AWG30, insulated with PTFE
Heater resistance:*	R_H (0 °C) = 45 Ohm +/- 1 %
Temperature sensor:*	R_s (0 °C) = 1200 Ohm +/- 1 %
Max. supply voltage (typical):*	2 V to 5 V (at Δ T = 30 K (0 m/s ≤ v_{gas} ≤ 100 m/s)
Max. heater voltage:*	3 V (at 0 m/s)
Alternative construction:*	Injection moulded housing

* Customer specific alternatives available

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Order Information - 3 pins, AWG30, insulated with PTFE

Dimension (in mm)	Without housing	With housing
7 x 2.4 x 0.15	FS5.0.1L.195	
Order code	050.00127	
Ø 6.0 (+/- 0.1, L= 14 (+/- 0.2)		FS5.A.1L.195
Order code		050.00128

INNOVATIVE SENSOR TECHNOLOGY
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