

FS7.4W Thermal Mass Flow Sensor Optimal for various gas flow applications up to 400 °C

Benefits & Characteristics

- Simple signal processing
- Excellent long-term stability
- Simple calibration
- Excellent reproducibility

Illustration¹⁾

- Maximum operating temperature range up to 400 °C
- Symmetrical heater design and heightened sensitivity
- Customer-specific sensor available upon request



1) For actual size, see dimensions

Technical Data

Dimensions (L x W x H / H2 in mm):*	6.9 x 2.4 x 0.20 / 0.60
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 :	~200 ms (jump from 0 to 10000 sccm)
Operating temperature range:*	-20 °C to +400 °C
Temperature sensitivity:	< 0.1 %/K (dependent on the electronics)
Connection:*	3 pins, Pt/Ni-wire, ø 0.2 mm, 15 mm
Heater:*	$R_{_H}(0 \ ^\circ C) = 45 \ \Omega \ \pm 1 \ \%$
Reference element:*	$R_{s}(0 \ ^{\circ}C) = 1200 \ \Omega \pm 1 \ \%$
Voltage range (nominal):*	2 V to 5 V (at Δ T = 30 K (0 m/s $\leq v_{qas} \leq$ 100 m/s)
Maximum heater voltage:*	3 V (at 0 m/s)

* Customer-specific alternatives available

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