



FS7.4W

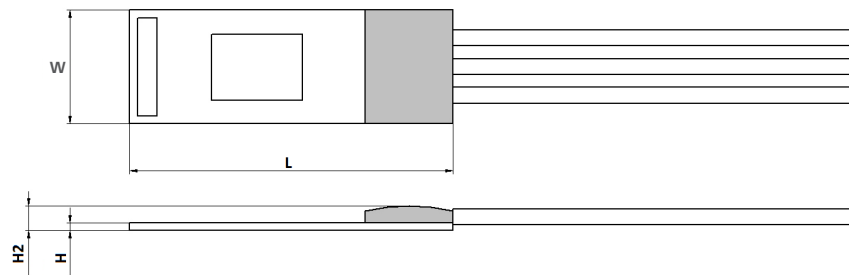
Thermal Mass Flow Sensor

Optimal for various gas flow applications up to 400 °C

Benefits & Characteristics

- Simple signal processing
- Excellent long-term stability
- Simple calibration
- Excellent reproducibility
- Maximum operating temperature range up to 400 °C
- Symmetrical heater design and heightened sensitivity
- Customer-specific sensor available upon request

Illustration¹⁾



1) For actual size, see dimensions

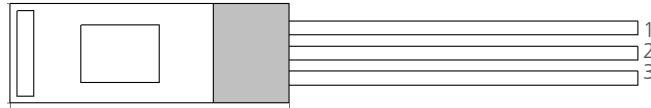
Technical Data

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, \varnothing 0.2 mm, 15 mm
Heater:*	$R_H(0\text{ °C}) = 45\ \Omega \pm 1\ \%$
Reference element:*	$R_S(0\text{ °C}) = 1200\ \Omega \pm 1\ \%$
Voltage range (nominal):*	2 V to 5 V (at $\Delta T = 30\text{ K}$ ($0\text{ m/s} \leq v_{\text{gas}} \leq 100\text{ m/s}$))
Maximum heater voltage:*	3 V (at 0 m/s)

* Customer-specific alternatives available



Pin Assignment



1	2	3
heater	temperature sensor	GND

Order Information - Pt/Ni-wire, \varnothing 0.2 mm, 15 mm

Dimension (L x W x H in mm)	FS7.0.4W.015
Order code	350.00218

Additional Electronics

Module:	Document name: DFFS_FSL_Module_E
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Additional Documents

Application Note:	Document name: AFFS7_E
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PRELIMINARY

