

FS7.4W

Thermal mass flow sensor

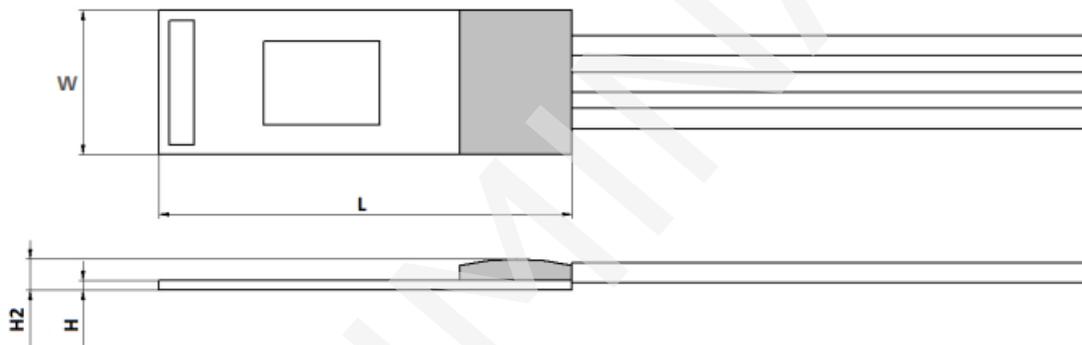
Optimal for various gas flow applications up to 400 °C

Benefits & characteristics

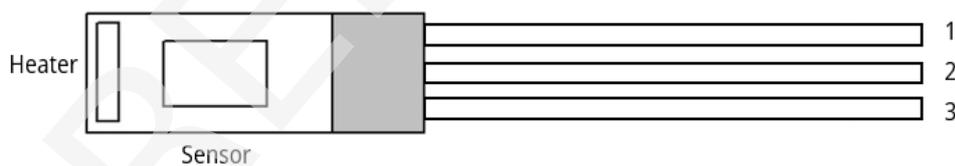
- Simple signal processing
- Simple calibration
- Stable platinum technology
- Excellent reproducibility
- Excellent long-term stability
- Symmetrical heater design and heightened sensitivity
- Customer-specific sensor available on request



Illustration



Pin Assignment



1	3	3
Heater	Temperature Sensor	GND



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, 15mm long



Heater:* R_H (0 °C) = 45 Ω \pm 1 %

Reference element:* R_S (0 °C) = 1200 Ω \pm 1 %

Voltage range (nominal):* 2 V to 5 V (at $\Delta T = 30$ K ($0 \text{ m/s} \leq v_{\text{gas}} \leq 100 \text{ m/s}$))

Maximum heater voltage:* 3 V (at 0 m/s)

Alternative construction:* Moulded plastic housing

*Customer-specific alternatives available

Order Information

Product name	Description	Dimensions L x W x H2	Order code
FS7.0.4W.015	Flow sensor with Pt/Ni-wire, \varnothing 0.2 mm, 15 mm	6.9 x 2.4 x 0.6 mm	104999

Additional Electronics

Document name:

Module: DFFS_FSL_Module_E

Additional Documents

Document name:

Application Note AFFS7_E



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