

physical. chemical. biological.



FS7.0.1L.195



Thermal Mass Flow Sensor Optimal for various gas flow applications up to 150 °C



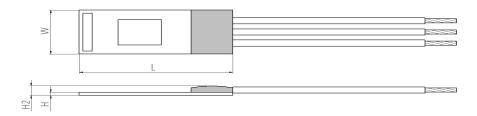
Benefits & Characteristics



- Easy adaptation in various applications and housings •
- Simple signal processing
- Simple calibration
- Stable platinum technology

- Excellent long-term stability
- Excellent reproducibility
- Symmetrical heater design and heightened sensitivity

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 +150 °C
Temperature sensitivity:	< 0.1 %/K (dependent on the electronics)
Connection:	3 pins, AWG 30/7, stranded wire, insulated with PTFE, 195 mm long
Heater:	$R_{H}(0 \text{ °C}) = 45 \Omega \pm 1 \%$
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)





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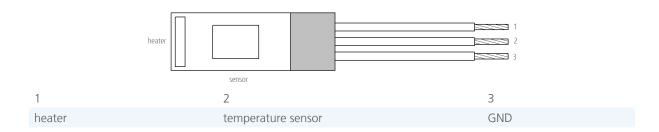




Product Photo



Pin Assignment



Order Information

Description:	Item number:	Former main reference:
FS7.0.1L.195	103705	050.00216

Additional Electronics

Description:	Item number:	Former main reference:
Flow Demo Board FS7 - board without sensor	104017	160.00022
Flow Demo Board FS7 - board with FS7 sensor (with housing)	104018	160.00023

Additional Documents

	Document name:	
Application Note:	AFFS7_E	



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