



FS2 Thermal Mass Flow Sensor Optimal for measuring gas flow and direction

Benefits & Characteristics

Detection of flow direction

Outstanding sensitivity

No moving mechanical parts

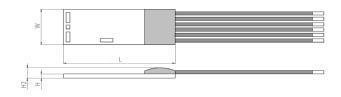
- Simple signal processing
- Simple calibration

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- Bare sensor element resists up to +450 °C (customer specific)
- Stable platinum technology Excellent reproducibility
 - Customer-specific sensor available upon request

Illustration¹⁾

.



Excellent long-term stability

1) For actual size, see dimensions

Technical Data

Dimensions (L x W x H / H2 in mm):*	5.0 x 3.5 x 0.20 / 0.60	
Operating measuring range:	0 ml/min to 50 ml/min (half bridge mode)	
	0 m/s to 1 m/s (half bridge mode)	
	0 m/s to 100 m/s (CTA mode)	
	0 l/min to 5 l/min (CTA mode)	
Minimum operating range:	0 ml/min to 2.5 ml/min	
Response sensitivity:	0.001 m/s (50 µl/min)	
Accuracy:	< 2 % of the measured value (dependent on the electronics and calibration)	
Response time t ₆₃ :	< 0.5 s	
Operating temperature range:*	-20 °C to +150 °C	
Temperature sensitivity:	< 0.1 %/K (dependent on the electronics)	
Connection:*	Cu-wire, enameled, Ø 0.2 mm	
Heater:*	$R_{_{H}}(25 \text{ °C}) = 34 \Omega \pm 10 \%$	
Measuring element:*	$R_{s,i}(25 \text{ °C}) = 425 \Omega \pm 10 \%$	
Reference element:*	$R_{R}(25 \text{ °C}) = 710 \Omega \pm 10 \%$	
Voltage range (nominal):*	2 V to 5 V (dependent on flow rate)	

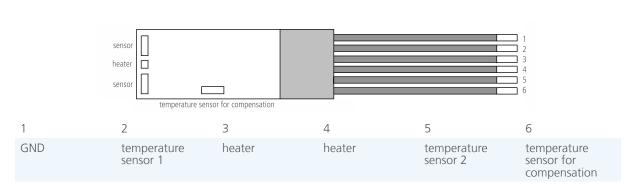
* Customer-specific alternatives available



physical. chemical. biological.



Pin Assignment



Order Information - Cu-wire, enameled, Ø 0.2 mm

Wire length	25 mm	300 mm
	FS2T.0.1E.025	FS2T.0.1E.300
Order code	050.00130	350.00188



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