

FS2

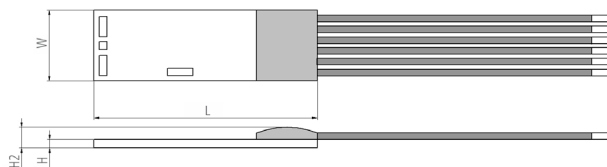
Thermal Mass Flow Sensor

Optimal for measuring gas flow and direction

Benefits & Characteristics

- Detection of flow direction
- Simple signal processing
- Outstanding sensitivity
- Stable platinum technology
- No moving mechanical parts
- Excellent long-term stability
- Simple calibration
- Bare sensor element resists up to +450 °C (customer specific)
- Excellent reproducibility
- Customer-specific sensor available upon request

Illustration¹⁾



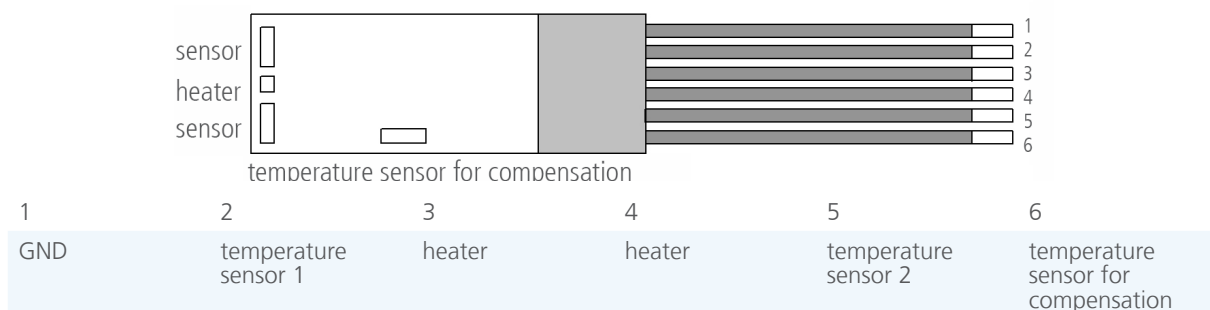
1) For actual size, see dimensions

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 m/s to 1 m/s (half bridge mode) 0 ml/min to 50 ml/min (half bridge mode), tube ID about 1 mm 0 m/s to 100 m/s (CTA mode) 0 l/min to 5 l/min (CTA mode), tube ID about 1 mm
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

Pin Assignment



Product photo



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	103663	103742
Former order code	050.00130	050.00262