



FS5 Flowmodule

Thermal Mass Flow Sensor

Optimal for gas flow sensor evaluation

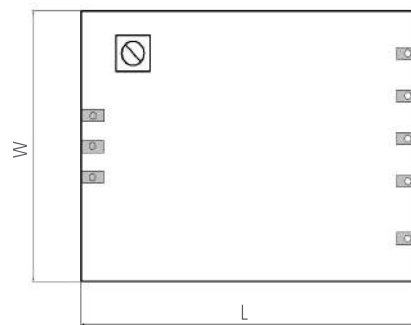


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Benefits & Characteristics

- Easy to use plug & play module (not calibrated)
- Simple CTA (constant temperature anemometer)
- Simple gain adjustment
- No microprocessor or software influenced signal
- Customer specific sensor available upon request

Illustration¹⁾



1) For actual size, see dimensions

Technical Data

Dimensions (L x W in mm): *	45 x 25
Operating measuring range:	0 m/s to 50 m/s
Accuracy:	< 5 % of the measured value (dependent on calibration)
Operating temperature range:	-40 °C to +85 °C (module)
Temperature sensitivity:	< 0.5 %/K (dependent on calibration)
Connection:	solder pads on PCB
Heater ²⁾ : *	$R_H(0\text{ °C}) = 45\ \Omega \pm 1\ \%$
Reference element ³⁾ : *	$R_s(0\text{ °C}) = 1200\ \Omega \pm 1\ \%$
Voltage range (nominal): *	5 V DC $\pm 5\ \%$ (internal main voltage is 10 V)
Warm-up time:	< 30 s
Analog output, non linear ⁴⁾ :	0 V (2) to 10 V; 50 mA (operating point at still air = 3.5 V)

2) Related to the F55 sensor

3) Related to the F55 sensor

4) Can be adjusted with potentiometer

* Customer specific alternatives available



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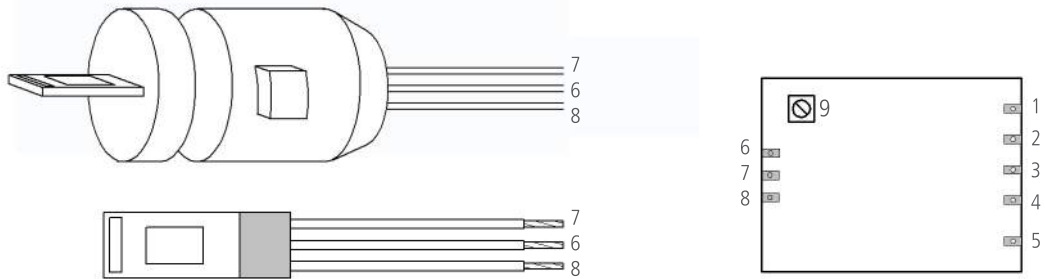
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Pin Assignment



1	2	3	4	5
flow output			GND	$U_{\text{supply}} +5 \text{ V}$
6	7	8	9	
temperature sensor	heater	GND	potentiometer	

Order Information³⁾

Order code	FS5-Flowmodul 160.00001
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³⁾ The module does not contain any sensor. The sensor should be ordered separately.

Additional Documents

Datasheet:	Document name: DFFS5_E
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