

physical. chemical. biological.



MFM.EVAL.01.DI2C **MicroFlow Evaluation Module** Optimal for very low differential pressure applications





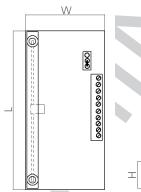




Benefits & Characteristics

- MFS05 micro flow sensor MEMS component
- 5 Pa operating measuring range
- 2 million digital counts with 5 mPa noise free
- Repeatability near zero less than 0.02 % full scale
- 24 bit resolution (flow / pressure)
- Patented flow measurement
- Integrated temperature measurement with 24 bit
- Digital (I²C, SPI) or PWM signal output

Illustration¹⁾





1) For actual size, see dimensions

Technical Data

Measuring principle:	Thermal
Operating measuring range:	0 ml/min to 10 ml/min (0 Pa to 5 Pa)
Response time:	Min. 100 ms
Resolution:	Approximately 5 µl/min
Operating temperature range:	+15 °C to +25 °C (calibrated at 23 °C)
Connection:	Screw terminal
Pneumatic connection:	Festo CK-M5-PK-4
Supply voltage (electronics):	$3.3 V_{DC} \pm 5 \%$
Supply voltage (heater):	$5.0 V_{DC} \pm 5 \%$
Current consumption:	3 mA at 3.3 V 5 mA at 5 V
Dimensions (L x W x H in mm)	70 x 35 x 14 (example)

Module available with I²C- or SPI-to-USB-adapter and software for evaluation with PC No reverse polarity or over voltage protection of supply voltage



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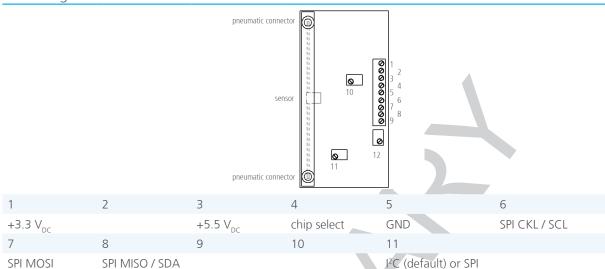




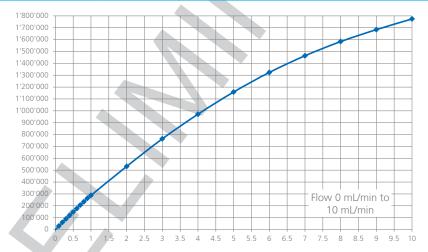


* Customer-specific alternatives available

Pin Assignment



Digital output signal of sensor frontend¹⁾



1) Depending on differential pressure





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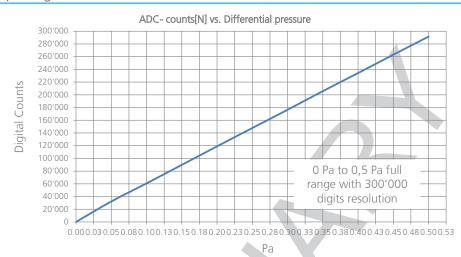








Digital output signal of sensor frontend¹⁾



1) Depending on differential pressure

Order Information

MFM.EVAL.01.DI2C Order code upon request



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