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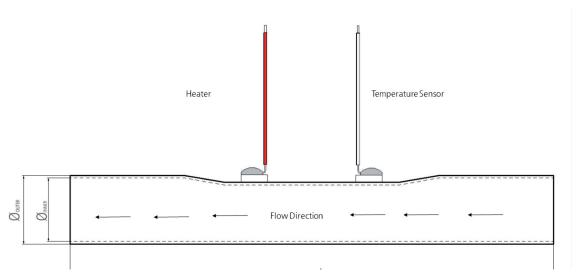
Out of Liquid Thermal Mass Flow Sensor

Optimal for flow applications in aggressive liquids

Benefits & Characteristics

- Suitable for aggressive liquids
- No contact between sensor and liquid
- High chemical resistance
- Simple flow switches possible

Illustration¹⁾



1) For actual size, see dimensions

Technical Sensor Data

Tube dimensions (L x $\varnothing_{\text{OUTER}}$ (x $\varnothing_{\text{INNER}}$) in mm):*

Operating temperature range:

Heater resistance:*

Temperature sensor resistance:*

Operating measuring range:

Characteristics curve (TCR):

Accuracy:

Sensor wire:*

Sensor dimensions (L x W x H x LW in mm)

Tube Material:*

40.0 x 4.0 (x 3.8)

-50 °C to +150 °C

The temperature range has an impact on the accuracy, depending on variations in the thermal properties of flowing media

 $R_{\downarrow\downarrow}(0 \, ^{\circ}C) = 50 \, \Omega \text{ (red wires)}$

 $R_s(0 \text{ °C}) = 1000 \Omega \text{ (white wires)}$

0 ml/min to 3000 ml/min (4 m/s)

3850 ppm/K

IEC 60751 F0.6 (class C)

Cu/Ag, stranded wires PTFE isolated, AWG 30/19, 50 mm

2.3. x 2.0 x 1.3

Stainless steel 1.4301/304

^{*}customer specific versions on request



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The following values are viewed as typical and achieved in laboratory conditions. The medium was deionized water.

Measurement range: 0 - 20 kg/h (laminar flow profile) 20 - 200 kg/h (turbulent flow profile)

Sensitivity: < 0.1 m/

Response time t_{sq} : < 500 ms, dependent on electronics (used average

determination)

Accuracy: Typically 3% of measured value (depending on

electronics and calibration)

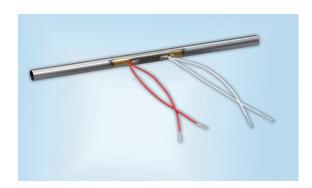
Temperature sensitivity (uncomp.): < 0.3% /K (depending on electronics and calibration)

Maximum Heating range: 0.75 W

Overtemperature (CTA-mode): 10 - 15 K (recommended)

max. 30 K

Product Photo



Order Information

	P1K0/050.232.2K.C.050.M.U.S
Order code	104171

Additional Electronics

	Document name:
Module:	DFOOL_Demo_Module_E
Order code	104021
Former order code	160.00026



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