



## Flow Monitor RAMC

Metal short-stroke Rotameter



- Different process connections like flanges according to EN and ASME
- All wetted parts in stainless steel or PTFE
- Maximum flow 0.025 - 130 m<sup>3</sup>/h water resp. 0.75 – 1400 m<sup>3</sup>/h air (20 °C/ 1.013 bar abs)

D-EN-RAMC-20200401



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#### Features

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- Measuring accuracy acc. Directive VDI/VDE 3513 sheet 2 (qG=50 %)
- Float damping to avoid float bouncing with gas applications
- Optional heat tracing (with steam or fluid heat carrier)
- Indicator in stainless steel, aluminum, protection class IP66/67
- Local indicator without additional power supply
- Microprocessor controlled transmitter with 24 V, 115 V or 230 V power supply
- Intrinsically safe version (Ex-i): ATEX, IECEx, FM (US/C), NEPSI, PESO, EAC, INMETRO
- Flame proof version (Ex-d): ATEX, IECEx, NEPSI, PESO, KOSHA, EAC, TS
- Dust explosion proof: ATEX, IECEx, NEPSI, PESO, KOSHA
- Ex for non-electrical RAMC: ATEX, EAC
- FMEDA report available for SIL application
- Limit switches, also available as "Fail Safe" version

The short-tube Rotameter is used for measurement of flow rates of liquids and gases. Its special application is in troubled, opaque or aggressive mediums. The instrument is mounted in a vertical pipeline with flow direction upwards. Inside the special shaped conic metal tube, a float is guided concentrically. The position of this float is magnetically transmitted to the indicator. The indicators are exchangeable without influence on the accuracy.

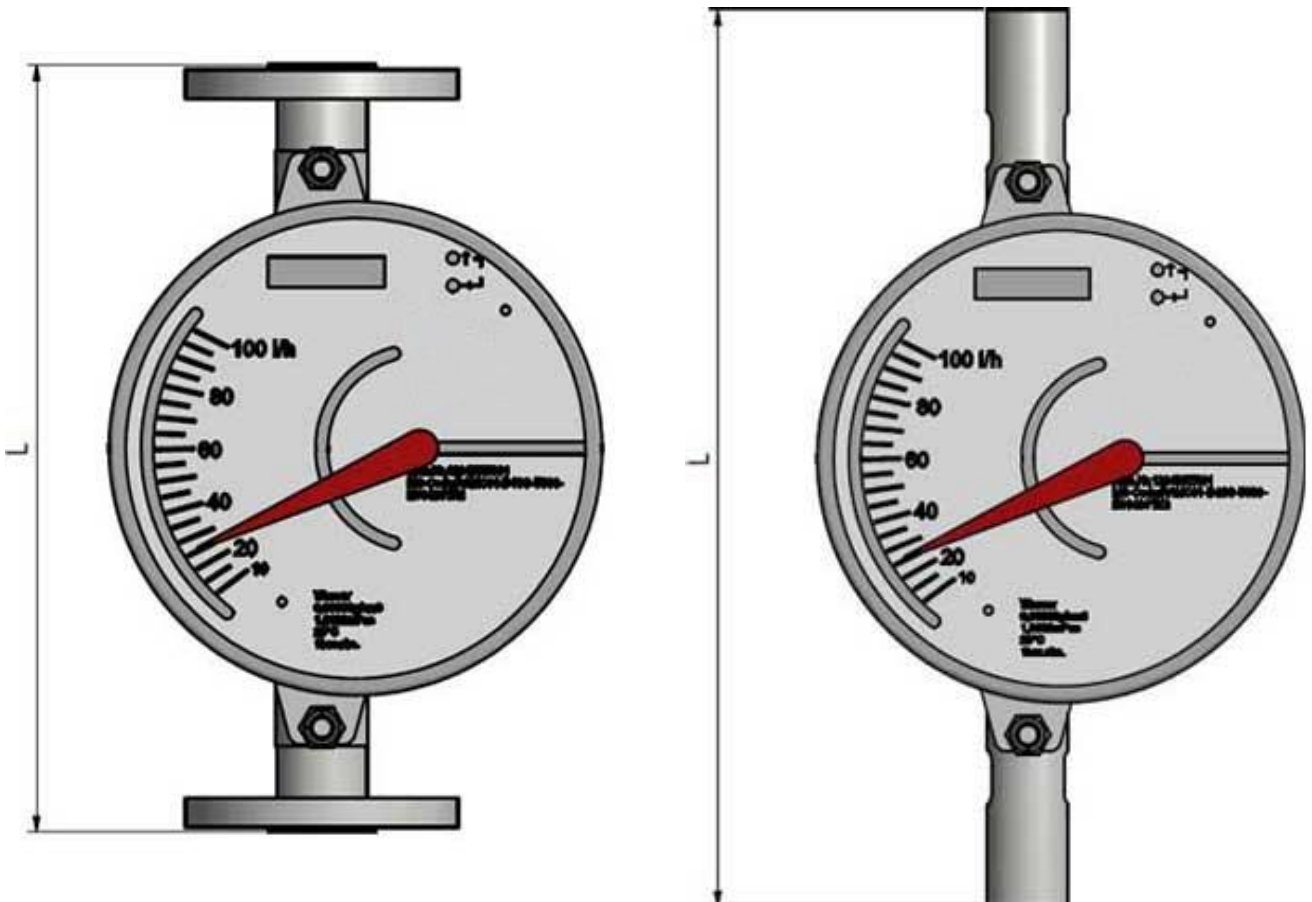
#### Electronic transmitter as standard with local-controlling display with the following features

- Flow indication (totalize, actual, percent)
- Indication of different volume- and mass flow units
- Second (manual) calibration storing
- Patented float blocking indication function
- Signal output damping
- Error message indication
- Temperature measurement in the electronic transmitter
- HART5/7-Communication
- Profibus PA-Communication



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Process connection (ø)	Flanged process connection „L“	NPT process connection „L“
1/2 “	250 mm / 9,8 “	295 mm / 11,6 “
3/4 “	250 mm / 9,8 “	295 mm / 11,6 “
1 “	250 mm / 9,8 “	295 mm / 11,6 “
1 1/4 “	250 mm / 9,8 “	295 mm / 11,6 “
1 1/2 “	250 mm / 9,8 “	295 mm / 11,6 “
2 “	250 mm / 9,8 “	310 mm / 12,2 “
2 1/2 “	250 mm / 9,8 “	325 mm / 12,7 “
3 “	250 mm / 9,8 “	325 mm / 12,7 “
3 1/2 “	250 mm / 9,8 “	
4 “	250 mm / 9,8 “	
5 “	250 mm / 9,8 “	
6 “	260 mm / 10,2 “	

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Material		
Component	Standard	Optional
Flanges	Stainless steel	Titan, Hastelloy, Monel
NPT thread	Stainless steel	Titan, Hastelloy, Monel
Measuring tube	Stainless steel	Titan, Hastelloy, Monel, PTFE-coated
Float	Stainless steel	Titan, Hastelloy, Monel, PTFE-coated
Housing	Stainless steel/aluminum	Epoxy coating, highly corrosion-resistant coating

Certificates / approvals
RoHS Directive 2011/65/EU
CANADIAN REGISTRATION NUMBERS (CRN ) available
METROLOGICAL REGULATION IN CIS AND EAC COUNTRIES Russia, Kazakhstan, Uzbekistan, Belorussia and Turkmenistan are members of CIS. RAMC has "Pattern Approval Certificate of Measuring Instruments" and is registered as a measuring instrument in Russia, Kazakhstan, Uzbekistan, Belorussia and Turkmenistan. Option /QR2 is for Kazakhstan. Option /QR3 is for Uzbekistan. Russia, Kazakhstan and Belorussia are covered by EAC.
ATEX registration

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#### Important instructions!

Technical changes and errors reserved. Pictures can be similar.

The operating instructions belonging to this device must be observed! Download at [www.schmidt-messtechnik.com](http://www.schmidt-messtechnik.com).