

Flow transmitter RRH-032RMK



- Simple and affordable flow transmitter for pipe diameters of DN32 or larger
- Stainless steel version
- Suitable for retrofitting in existing pipelines with tapping clamps or weld-on nozzles

Technical data

Electrical data

Signal output T

Signal output I

Signal output U

	Deddle wheel			
Measuring principle	Paddle wheel			
Nominal widths	DN 32 and larger			
Mechanical	Insertion probe with union nut			
Connection	(welded-on nozzle and tapping clamps			
	available as accessories)			
Measuring range	0.3 6 m/s			
Reproducibility	±1%			
Media temperature	with tapping clamp 0+60 °C,			
	with weld-on nozzle 0+95 °C			
Pressure resistance	PN 10			
Electrical connec-	2 m cable or for			
tion	round plug connector M12x1, 4-pin			
Wetted materials				
Housing	1.4305			
Rotor	PVDF / magnets / epoxy resin			
Bearing	Iglidur X			
Axis	Ceramics Zr02-TZP			
Seal	Fluororubber FKM			
Weight	approx. 0.720 kg			
Protection rating	IP 67			
Conformity	CE			

Push-Pull output circuit Auxiliary voltage 10...30 V DC

Output current max. 100 mA

reverse polarity protected Current output 4...20 mA

resistant to short-circuit proof.

Auxiliary voltage 10...30 V DC

resistant to short-circuit proof, reverse polarity protected

Voltage output 0...10 V Auxiliary voltage 15...30 V DC

Output current max. 20 mÅ resistant to short-circuit proof, reverse polarity protected

Quiescent current consumption 10 mA

Quiescent current consumption max. 50 mA

Quiescent current consumption max. 50 mA

Signal output F Frequency output programmable up to 2 kH_Z Auxiliary voltage 10...30 V DC Quiescent current consumption max. 50 mA Push-Pull output circuit Output current max. 100 mA resistant to short-circuit proof, reverse polarity protected Signal output S Limit switch Auxiliary voltage 10...30 V DC Quiescent current consumption max. 50 mA Push-Pull output circuit Output current max. 100 mA resistant to short-circuit proof, reverse polarity protected

Dimensions



Output signal	Cable 2 m	M12x1 without LED	M12x1 with LED
Т	•	•	
I/U/F/S			•

Ranges

The measuring range of the flow transmitter is $0.3 \dots 6$ m/s. This results in approximated flow rates in pipes of various nominal widths according to the following table (not considering the flow profile).

DN	Measuring range				
	l/min	m³/h			
32	15 300	18			
40	23 460	27			
50	35 700	42			
65	601200	72			
80	901800	108			
100	1402800	168			
125	2204400	264			
150	3156300	378			

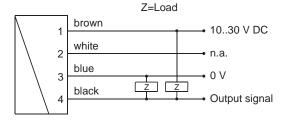
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The output frequency of the non-adjustable frequency-producing sensor (version T) at full deflection is approx. 240 Hz. Versions with analog output (U or I) or adjustable frequency output (F) are available with limited measuring ranges (1, 2 and 4 m/s). The desired output frequency of the adjustable frequency output must be specified when placing an order (up to 2000 Hz).

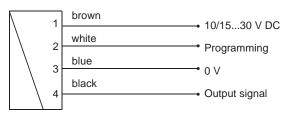
Wiring

Signal output T



Connection example: PNP NPN

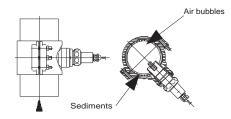
Signal output I/U/F/S





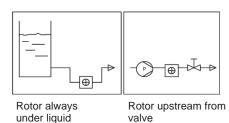
Installation notice

The sensor should be installed with run-in and run-out sections of $10 \times D$ of the pipe diameter, in order to minimise the influence of vortices and turbulences.



The best installation position (low contamination, good venting) is with the direction of flow from bottom to top, or in horizontal piping with the sensor at an angle of 45° downwards. The union nut must be tightened to a torque of 30 Nm.

Installation method:



Ordering code



1.	Measurii	ng range]	
	000	Adjustable in the device						1	
	001	fixed at 1 m/s				_			
	002	fixed at 2 m/s							
	004	fixed at 4 m/s							
	006	fixed at 6 m/s							
2.	Seal mat	erial							
	V	Fluororubber FKM							
	E	EPDM							
	N	NBR							
3.	Rotor								
	05M	With 5 magnets							
4.	Signal o	utput							
	Т	Push-Pull	•					•	•
	1	Current output 420 mA	•	•	•	•	•		•
	U	Voltage output 010 V	•	•	•	•	•		•
	F	Frequency output programmable up to 2 kHz	•	•	•	•	•		•
	S	Limit switch					•		•
5.	Electrica	I connection							
	K	2 m cable						-	
	S	For round plug connector M1	2x1	, 4	-pir	۱			-

Accessories

- Round plug connector KB04 / cable K04PU
- Weld-on nozzle VKI-032K
- Tapping clamps BBI-032H
- Measuring tubes MH-032H
- Device configurator ECI-3

Options

• Special versions available on request

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