



Flow Monitor – Flow Indicator RVM/UA-2

Flow monitor / flow indicator operating on the principle of the float type indicator for liquids



- Compact design
- Universal orientation
- High pressure resistance
- Threaded connection, special thread on request
- EX-version according to ATEX directive available
- Switch contact SG-15EX

D-EN-RVMUA2-20200526



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Features

- Universal orientation
- High reliability
- High switch accuracy
- Infinitely variable switch point adjustment by operator
- EX-version according to ATEX directive available
- High pressure resistance
- Threaded connection, special thread on request

Application

- Cooling systems and cooling circuits
- Mechanical engineering
- Medical engineering
- Pharmaceutical industry
- Chemical industry
- Research & Development

Installation information

- The operating instructions for RVM/UA-2 Module BASICS / ...ATEX must be observed! !
- Download: www.schmidt-messtechnik.com

Operating Data	
Operating pressure, max.	300 bar (brass version) 350 bar (stainless steel version)
Pressure drop	0.02 – 0.3 bar
Temperature, max.	100°C (optional 160°C)
Measuring accuracy	±10% of full scale

Changed operating data apply to the device in explosion-proof design according to ATEX directive. Refer to the Operating Instructions for RVM/UA-2 Module ATEX.

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Measuring Ranges			
Type	Switch range for H ₂ O at 20°C ⁽¹⁾		
	l/min	gph	gpm
RVM/UA-2/02	0.02 – 0.2	0.3 – 3.35	
RVM/UA-2/06	0.2 – 0.6	3.2 – 9.5	
RVM/UA-2/1	0.4 – 1.8	6.5 – 28.5	
RVM/UA-2/3	0.8 – 3.2	13 – 51	
RVM/UA-2/7	2 – 7	32 – 111	
RVM/UA-2/13	3 – 13	48 – 205	
RVM/UA-2/20	4 – 20	65 – 315	
RVM/UA-2/30	8 - 30	130 - 480	

⁽¹⁾ The specified measuring- / switch ranges are valid for water having a density of 1.00 kg/dm³, vertical installation of the device and flow direction from bottom to top. Other installation positions or deviation from the operating densities will increase the measurement error specified in the data sheet.

Operating density for water at 20 °C and 1.013 bar (absolute value): 1.00 kg/dm³. Upon request, special scales for deviating media, different operating conditions and installation positions (only for devices which can be installed in any position) are available.

The specified switch values are switch-off points, i.e. switch values by decreasing flow.

Other measuring- /switch ranges are available upon request.

Materials		
	Brass version, wetted parts	Stainless steel version, wetted parts
Spring	1.4571	1.4571
Gaskets	NBR (optional FKM, EPDM) ⁽²⁾	FKM (optional NBR, EPDM) ⁽²⁾
Magnets	Hard ferrite	Hard ferrite
Device body	Brass, nickel-plated	1.4571
All other wetted parts	Brass	1.4571
	Brass version, non-wetted parts	Stainless steel version, non-wetted parts
Indicator	Makrolon® / Brass, nickel-plated	Makrolon® / Brass, nickel-plated

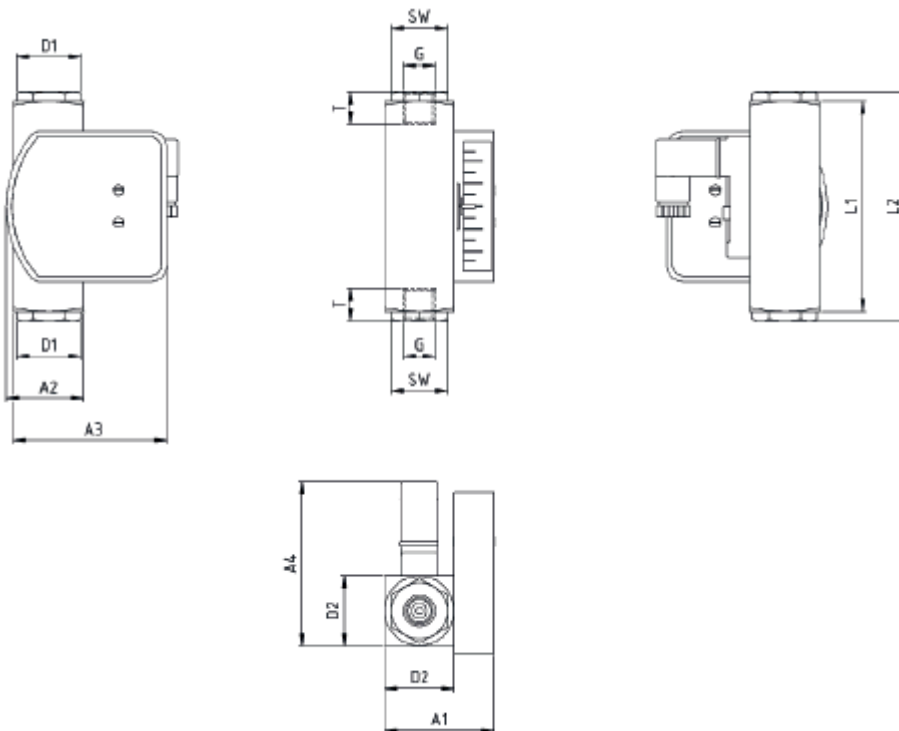
⁽²⁾ Other gasket materials on request



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Technical drawing



Summary of Types



Type	Overall dimensions [mm]												Weight approx [g]
	G	DN	SW	L1	L2	T	D1	D2	A1	A2	A3	A4	
RVM/UA-2/02	1/4"	8	24	90	98	10	27.5	30	47	33	66	~70	620
RVM/UA-2/06	3/8"	10	24	90	119	11	27.5	30	47	33	66	~70	670
	1/2"	16	-	90	-	14	-	30	47	33	66	~70	570
RVM/UA-2/1	1/4"	8	24	90	98	10	27.5	30	47	33	66	~70	620
RVM/UA-2/3	3/8"	10	24	90	119	11	27.5	30	47	33	66	~70	670
	1/2"	15	-	90	-	14	-	30	47	33	66	~70	570
RVM/UA-2/7	1/4"	8	24	90	98	10	27.5	30	47	33	66	~70	620
RVM/UA-2/13	3/8"	10	24	90	119	11	27.5	30	47	33	66	~70	670
	1/2"	15	-	90	-	14	-	30	47	33	66	~70	570
RVM/UA-2/20	1/2"	16	-	90	-	14	-	30	47	33	66	~70	570
RVM/UA-2/30	1/2"	16	-	90	-	14	-	30	47	33	66	~70	570

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Electrical Data					
Change over (COC)			250V • 1.5A • 50VA ⁽⁴⁾		
Normally open (NOC)			230V • 3A • 60VA		
Change over M12x1 (-20°C – 85°C)			125V • 1.5A • 50VA ⁽⁴⁾		
Normally open M12y1 (-20°C – 85°C)			125V • 3A • 60VA		
Change over PLC ⁽³⁾			250V • 1A • 60VA		
EX-version in compliance with ATEX directive					
EC-Type examination					
EPS 13ATEX 1 596 U					
Connection to certified intrinsically safe circuits					
Li = 0			Ci = 0		
Gas			Dust		
Ui	li	Pi	Ui	li	Pi
<12.1V	1.0A	3.0W	<12.1V	<0.25A	0.75W
<20V	0.309A	1.55W	<20V	<0.25A	0.75W
<25V	0.158A	0.99W	<25V	<0.75A	0.75W
<30V	0.101A	0.76W	<30V	<0.75A	0.75W
Operating temperature			Marking		
-5°C < T _{Service} < 45°C			 II 2G Ex ib IIC  II 2G Ex ib IIIC		

⁽³⁾ Available with connector only

⁽⁴⁾ Minimum load 3VA



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Electrical Connection

- Connector in compliance with EN 175301-803, Form C (DIN 43650, Form C)
- Connector M12x1
- Cable (1m) ⁽⁵⁾

EX-version in compliance with ATEX directive

- Connector in compliance with EN 175301-803, Form C (DIN 43650, Form C)
- Connector M12x1
- Cable (1m) ⁽⁵⁾

Ingress Protection

IP65: Connector in compliance with EN 175301-803, Form C or Connector M12x1

IP76: Cable

Output signal

The contact opens / changes when the flow decreases below the set point.

Power supply

Not required (potential free reed contacts)

Connector types

Other connector types or cable lengths on request

⁽⁵⁾ Available as Normally Open Contact (NOC) only



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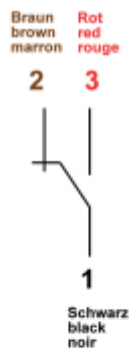
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Connection diagram

Connector in compliance with EN 175301-803 and cable

M12x1

Change over (COC)



Change over (COC)



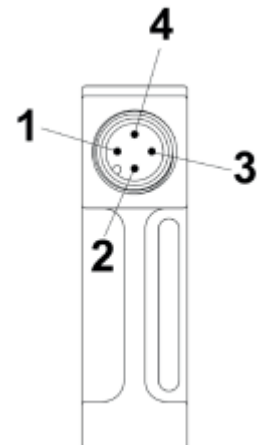
Normally open (NOC)



Normally open (NOC)



Pin-assignment



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.