

PLOVÁKOVÝ PRŮTOKOMĚR / INDIKÁTOR PRŮTOKU RVM/UA-1

Flow Monitor & Flow Indicator

RVM/UA-1







Operation

Float measuring principle

Application

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

Features

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

Installation information

 The operating instructions for RVM/UA-1 Module BASICS / ...ATEX must be observed!

OPERATING DATA

	250 bar (Brass version)		
Operating pressure, max.	300 bar (Stainless steel version)		
Pressure drop	0,02 – 0,4 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-1 Module ATEX.

For UL Recognized devices, changed operating data apply. Refer to the Operating Instructions for RVM/UA-1 Module BASICS.

Download: www.meister-flow.com

MEASURING RANGES

Туре	Switch range for H_2O at 20 °C ⁽¹⁾				
	l/min	gph	gpm		
RVM/UA-1/30	10 – 30	160 - 480			
RVM/UA-1/45	15 – 45	240 - 710			
RVM/UA-1/60	20 - 60	320 - 950			
RVM/UA-1/90	30 - 90		8 – 24		
RVM/UA-1/150	60 - 150		16 - 40		

⁽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 mounting 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

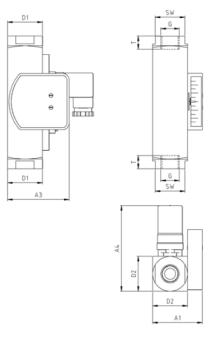
Brass version, wetted pa	arts	Stainless st
Spring:	1.4571	Spring:
Gaskets ⁽²⁾ :	NBR (optional FKM, EPDM) (3)	Gaskets ⁽²⁾ :
Magnets:	Hard ferrite	Magnets:
Threaded rings:	Brass	Threaded rin
Float:	Brass	Float:
Device body:	Brass, nickel-plated	Device body:
all other wetted parts:	Brass	all other wett
Brass version, non-wette	ed parts	Stainless st
Display:	Makrolon [®] / 1.4301	Display:

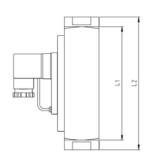
Stainless steel version, wetted parts				
Spring:	1.4571			
Gaskets ⁽²⁾ :	FKM (optional NBR, EPDM) $^{\scriptscriptstyle (3)}$			
Magnets:	Hard ferrite			
Threaded rings:	1.4571			
Float:	1.4571			
Device body:	1.4571			
all other wetted parts:	1.4571			
Stainless steel version, <mark>n</mark>	on-wetted parts			
Display:	Makrolon [®] / 1.4301			

⁽²⁾ Only with process connections

⁽³⁾ Other gasket materials on request







SUMMARY OF TYPES

(4)				Overall dimensions [mm]								Weight approx.
	DN	SW	L1	L2	т	D1	D2	A1	A2	A3	A4	[g] ⁽⁵⁾
/4"	20	34	130	152	15	40	40	57	_	71	~98	1340
n	25	40	130	130	17	40	40	57	-	71	~98	1160
/4"	20	34	130	152	15	40	40	57	_	71	~98	1340
п	25	40	130	130	17	40	40	57	-	71	~98	1160
/4"	20	34	130	152	15	40	40	57	-	71	~98	1340
II	25	40	130	130	17	40	40	57	-	71	~98	1160
II	25	40	130	130	17	40	40	57	-	71	~98	1160
11	25	40	130	130	17	40	40	57	_	71	~98	1160
" /. "	4"	25 4" 20 25 4" 20 25 25 25	25 40 4" 20 34 25 40 4" 20 34 25 40 25 40	25 40 130 4" 20 34 130 25 40 130 4" 20 34 130 25 40 130 25 40 130	25 40 130 130 4" 20 34 130 152 25 40 130 130 4" 20 34 130 152 25 40 130 130 4" 20 34 130 152 25 40 130 130 25 40 130 130	25 40 130 130 17 4" 20 34 130 152 15 25 40 130 130 17 4" 20 34 130 152 15 25 40 130 152 15 25 40 130 152 15 25 40 130 130 17 25 40 130 130 17	25 40 130 130 17 40 4" 20 34 130 152 15 40 25 40 130 130 17 40 4" 20 34 130 152 15 40 25 40 130 152 15 40 25 40 130 152 15 40 25 40 130 130 17 40 25 40 130 130 17 40	25 40 130 130 17 40 40 4" 20 34 130 152 15 40 40 25 40 130 152 15 40 40 25 40 130 130 17 40 40 4" 20 34 130 152 15 40 40 25 40 130 152 15 40 40 25 40 130 130 17 40 40 25 40 130 130 17 40 40	25 40 130 130 17 40 40 57 4" 20 34 130 152 15 40 40 57 25 40 130 130 17 40 40 57 4" 20 34 130 152 15 40 40 57 4" 20 34 130 152 15 40 40 57 25 40 130 130 17 40 40 57 25 40 130 130 17 40 40 57 25 40 130 130 17 40 40 57	25 40 130 17 40 40 57 - 4" 20 34 130 152 15 40 40 57 - 25 40 130 152 15 40 40 57 - 25 40 130 130 17 40 40 57 - 4" 20 34 130 152 15 40 40 57 - 25 40 130 152 15 40 40 57 - 25 40 130 130 17 40 40 57 - 25 40 130 130 17 40 40 57 -	25 40 130 17 40 40 57 - 71 4" 20 34 130 152 15 40 40 57 - 71 25 40 130 152 15 40 40 57 - 71 25 40 130 130 17 40 40 57 - 71 4" 20 34 130 152 15 40 40 57 - 71 25 40 130 152 15 40 40 57 - 71 25 40 130 130 17 40 40 57 - 71 25 40 130 130 17 40 40 57 - 71	25 40 130 130 17 40 40 57 - 71 ~98 4" 20 34 130 152 15 40 40 57 - 71 ~98 25 40 130 152 15 40 40 57 - 71 ~98 25 40 130 130 17 40 40 57 - 71 ~98 4" 20 34 130 152 15 40 40 57 - 71 ~98 25 40 130 152 15 40 40 57 - 71 ~98 25 40 130 130 17 40 40 57 - 71 ~98 25 40 130 130 17 40 40 57 - 71 ~98

⁽⁴⁾ NPT thread on request

⁽⁵⁾ Connection cable weight, 2 m approx. 80 g



Change over (COC)	250V \cdot 1,5A \cdot 50VA $^{\scriptscriptstyle (6)}$
Normally open (NOC)	250V · 3A · 100VA
Change over M12x1 (-20 °C – 85 °C)	250V \cdot 1,5A \cdot 50VA $^{\scriptscriptstyle{(6)}}$
Normally open M12x1 (-20 $^\circ\text{C}$ – 85 $^\circ\text{C})$	250V · 3A · 100VA
Change over PLC	250V · 1A · 60VA

EX-version in compliance with ATEX directive

ATEX II 2 G Ex mb IIC T6 Gb & ATE	X II 2 D Ex tb IIIC T80 °C Db
ATEX II 2 G Ex mb IIC T5 Gb & ATE	X II 2 D Ex tb IIIC T100 °C Db
Change over	$250V\cdot1A\cdot30VA^{(6)}$
Normally open	250V · 2A · 60VA

UL Recognized switch contacts

Change over	240V \cdot 1,5A \cdot 50VA ⁽⁶⁾
Normally open	250V · 3A · 100VA

⁽⁶⁾ Minimum load 3VA

ELECTRICAL CONNECTION

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

EX-version in compliance with ATEX directive

Cable (2 m) _

UL Recognized switch contacts

- Connector in compliance with EN 175301-803, Form A _
- Cable (1 m) _

Ingress Protection

IP65: Connector in compliance with EN 175301-803, Form A IP67: Cable or connector M12x1

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



■ CONNECTION DIAGRAM

