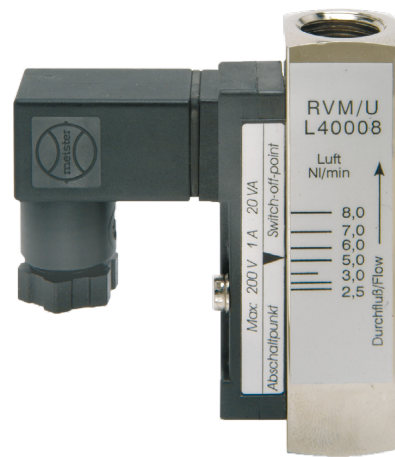




MASTERPIECES  
MADE IN GERMANY

## Flow Monitor

# RVM/U-L4



AIR



## OVERVIEW

### Operation

- Float measuring principle

### Application

- Cooling systems and cooling circuits
- Mechanical engineering
- Medical 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
- High pressure resistance
- Threaded connection, special thread on request

### Installation information

- The operating instructions for RVM/U-L4 Module BASICS / ...ATEX must be observed!
- **Download: [www.meister-flow.com](http://www.meister-flow.com)**

## OPERATING DATA

<b>Operating pressure, max.</b>	300 bar (Brass version)
	350 bar (Stainless steel version)
<b>Pressure drop</b>	0,02 – 0,2 bar
<b>Temperature, max.</b>	120 °C (optional 160 °C)
<b>Measuring accuracy</b>	±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/U-L4 Module ATEX.

Download: [www.meister-flow.com](http://www.meister-flow.com)

## MEASURING RANGES

Type	Switch range for air at 1 bar abs. & 20 °C <sup>(1)</sup>		
	NI/min	SCFH	SCFM
RVM/U-L40002	0,6 – 2,2	1,3 – 4,7	
RVM/U-L40006	1,7 – 6	3,5 – 12,7	
RVM/U-L40008	2,5 – 8	5,3 – 17	
RVM/U-L40012	3 – 12	6,5 – 25,5	
RVM/U-L4/06	3 – 22	6,5 – 47	
RVM/U-L40024	7 – 24	15 – 51	
RVM/U-L40034	12 – 34	25 – 72	
RVM/U-L4/2	16 – 56	34 – 118	
RVM/U-L4/3	20 – 80	42 – 170	

<sup>(1)</sup> The specified measuring- / switch ranges are valid for air having a density of 1.205 kg/m<sup>3</sup>, 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 air at 20 °C and 1.013 bar (absolute value): 1.205 kg/m<sup>3</sup>

Standard density for air (at 0 °C and 1.013 bar (absolute value): 1.293 kg/m<sup>3</sup>

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

Spring:	1.4571
Magnets:	Hard ferrite
Device body:	Brass, nickel-plated
all other wetted parts:	Brass

### Stainless steel version, wetted parts

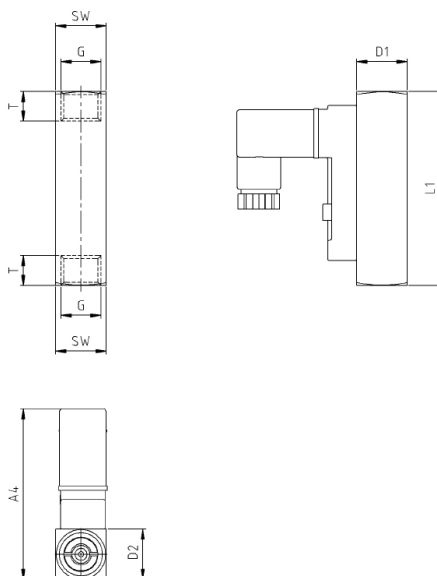
Spring:	1.4571
Magnets:	Hard ferrite
Device body:	1.4571
all other wetted parts:	1.4571



Proudly Distributed By

**TRIDENT** AUSTRALIA  
FLUID SYSTEMS & COMPONENTS

## TECHNICAL DRAWING



## SUMMARY OF TYPES

Type	Overall dimensions [mm]												Weight approx. [g] <sup>(3)</sup>
	G <sup>(2)</sup>	DN	SW	L1	L2	T	D1	D2	A1	A2	A3	A4	
RVM/U-L40002													
RVM/U-L40006													
RVM/U-L40008													
RVM/U-L40012													
RVM/U-L4/06	1/4"	8	17	65	-	10	17	17	-	-	-	~57	140
RVM/U-L40024													
RVM/U-L40034													
RVM/U-L4/2													
RVM/U-L4/3													

<sup>(2)</sup> NPT thread on request

<sup>(3)</sup> Connection cable weight, 2 m approx. 80 g

RVM/U-L4 3 0001 12-15 E M



Proudly Distributed By

TRIDENT AUSTRALIA  
FLUID SYSTEMS & COMPONENTS

## ELECTRICAL DATA

<b>Change over (COC) <sup>(4)</sup></b>	150V AC/DC · 1A · 20VA
<b>Normally open (NOC)</b>	140V AC · 0,7A · 20VA 200V DC · 1A · 20VA
<b>Change over M12x1 <sup>(5)</sup></b>	125V AC/DC · 1A · 20VA
<b>Normally open M12x1 <sup>(5)</sup></b>	125V AC · 0,7A · 20VA 125V DC · 1A · 20VA

### EX-version in compliance with ATEX directive

### EC-Type examination

EPS 13 ATEX 1 596 U

### Connection to certified intrinsically safe circuits

Li = 0

Ci = 0

Gas			Dust		
Ui	Ii	Pi	Ui	Ii	Pi
< 12,1 V	1,0 A	3,0 W	< 12,1 V	0,25 A	0,75 W
< 20 V	0,309 A	1,55 W	< 20 V	0,25 A	0,75 W
< 25 V	0,158 A	0,99 W	< 25 V	0,25 A	0,75 W
< 30 V	0,101 A	0,76 W	< 30 V	0,25 A	0,75 W

### Operating temperature

-5 °C < T<sub>Service</sub> < 45 °C

<sup>(4)</sup> Available with connector only

<sup>(5)</sup> -20 °C – 85 °C

### Marking

Ⓔ II 2G Ex ib IIC  
Ⓔ II 2D Ex ib IIIC

## ELECTRICAL CONNECTION

- Connector in compliance with EN 175301-803, Form C (DIN 43650, Form C)
- Connector M12x1
- Cable (1 m) <sup>(6)</sup>

### EX-version in compliance with ATEX directive

- Connector in compliance with EN 175301-803, Form C (DIN 43650, Form C)
- Connector M12x1
- Cable (1 m) <sup>(6)</sup>

### Ingress Protection

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

IP67: Cable

### Output signal

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

### Power supply

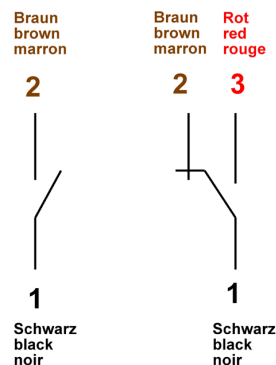
Not required (potential-free reed contacts)

### Connector types

Other connector types or cable lengths on request

<sup>(6)</sup> Available as Normally Open Contact (NOC) only

## CONNECTION DIAGRAM



RVMU-L4 0002 10-17 E M

Meister Strömungstechnik GmbH • Im Gewerbegebiet 2 • 63831 Wiesen / Germany  
Tel. +49 (0) 6096 9720-0 • Fax +49 (0) 6096 9720-30 • sales@meister-flow.com • www.meister-flow.com  
The general business terms of Meister Strömungstechnik GmbH are valid • All rights reserved

