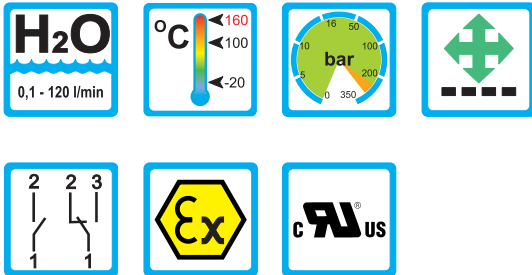


Flow Monitor

RVM/UM



Range of Application

Operation

- Float measuring principle

Application

- Cooling systems and cooling circuits
- Mechanical engineering
- Research and development

Features

- Universal orientation
- High reliability
- High switch accuracy
- High flowrates at low switchpoint settings
- EX-version to ATEX available
- High pressure resistance
- Threaded connection, Special threads on request

Installation Information

- The operating instructions for RVM/UM must be observed!
- Download: www.meister-flow.com

Operating Data

| | |
|-------------------------|--|
| Operating pressure max. | 250 bar (Brass) 300 bar (Stainless Steel) |
| Pressure drop | See diagram on reverse side |
| Maximum temperature | 120 °C (optional 160 °C) |
| Accuracy | Switch point > 3 l/min: ± 5 % of switch value Switch point ≤ 3 l/min: ± 0,1 l/min |

Measuring Ranges

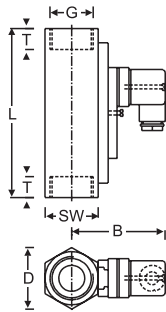
| Type | Switch point for H ₂ O at 20 °C ⁽¹⁾ | | |
|-----------------------|---|-------|-------|
| | [l/min] | [gph] | [gpm] |
| RVM/UM | | | |
| Lowest Switch point: | 0,1 | 1,6 | |
| Highest Switch point: | 30 | 480 | |

⁽¹⁾ The specified data are switch-off points other switch ranges on request.



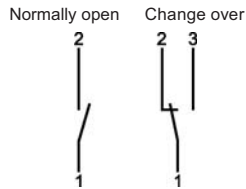
Technical Data

Mechanical drawing



RVM/UM

Connection diagram



Switch points and pressure drop

| | |
|---|-----------|
| Type | RVM/UM |
| Lowest switch point (at decreasing flow)*: | 0,1 l/min |
| Highest switch point (at decreasing flow)*: | 30 l/min |

* The switch point is factory adjusted.

Please specify switch point when ordering!

The recommended maximum flow is 120 l/min

Summary of types

| Type: | SW | D | Einbaumaße [mm] | | | | Gewicht ca. [g] | |
|--------|----|----|-----------------|----|----|----|-----------------|------|
| | | | B | G | DN | T | L | |
| RVM/UM | 41 | 47 | 72 | 1" | 25 | 20 | 130 | 1000 |

Electrical Data

Change over 250V • 1,5A • 50VA ⁽²⁾

Normally open 250V • 3A • 100VA

ATEX II 2 G Ex mb II T6 & ATEX II 2 D Ex tD A21 IP67 T80 °C

ATEX II 2 G Ex mb II T5 & ATEX II 2 D Ex tD A21 IP67 T100 °C

Change over 250V • 1A • 30VA

Normally open 250V • 2A • 60VA

Change over M 12x1 (-20 °C - 85 °C) 250V • 1,5A • 50VA ⁽²⁾

Normally open M 12x1 (-20 °C - 85 °C) 250V • 3A • 100VA

Change over SPS 250V • 1A • 60VA

Ingress Protection:

IP65: plug connection DIN 43650 Form A

IP67: 1 m sealed in cable, (with EEx-version 2 m)

or plug connection M 12x1

Output Signal

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

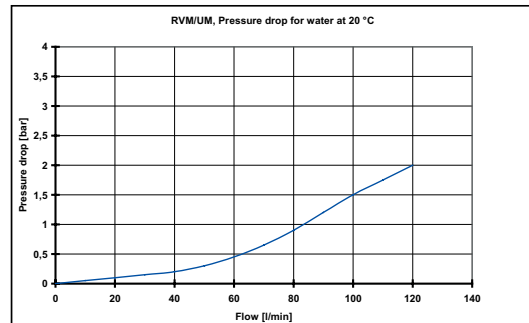
Power supply

Not required (potentialfree reed contacts)

Plug types

Other plug types or cable lengths on request

⁽²⁾ Minimum load 3 VA



Material

Brass version

Wetted parts:

| | |
|------------------------|---------------------|
| Spring: | 1.4571 |
| Magnets: | Hard ferrite |
| Housing: | Brass nickel-plated |
| All other wetted parts | Brass |

Stainless steel version

Wetted parts:

| | |
|------------------------|--------------|
| Spring: | 1.4571 |
| Magnets: | Hard ferrite |
| Housing: | 1.4571 |
| All other wetted parts | 1.4571 |

RVM/UM 2 0006 07-09 E M

