

# Flow Monitor

## RVM/UM



### Operation

The flow monitors type RVM/UM operate with the float measuring principle

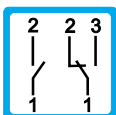
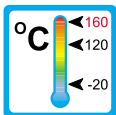


### Application

The flow monitors type RVM/UM are used for monitoring volumeflow of liquid media.

Areas of application:

- Coolingsystems and cooling-circuits
- Mechanical Engineering e.g. Weldingmachinery, Laserplants
- Research and development



### Features

The RVM/UM series proves itself through reliable function and easy handling. Further characteristics of this sturdy type are:

- universal mounting
- high switch accuracy
- high flowrate at low switch-point
- EX-version to ATEX available
- high pressure resistance
- Threaded connection  
Special threads on request

### Installation hints

The installation of the flow monitor can be done in any way in the system. The flow direction must be observed.

The flow monitor must not be used as a supporting part in a pipeconstruction!

The medium must not contain any solid particles! We recommend the installation of strainers type SFD or SFM.

External magnetic fields influence the switch contact. Keep adequate distance to those magnetic fields (e.g. electromotors)!

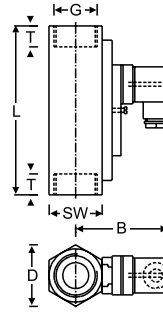
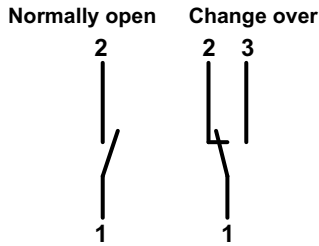
The operating instruction for RVM/UM must be observed under any circumstances!

RVM/UM 1 0001 09-04 E M



# Measuring Ranges, Technical Data

## Connection diagram



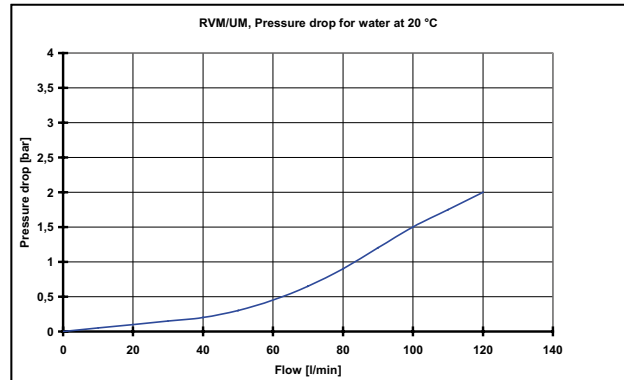
RVM/UM

## Dimensions and weights

Type	Overall dimensions mm							Weight approx. [g]
	SW	D	B	G	DN	T	L	
RVM/UM	41	47	72	1"	25	20	130	1000

## 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	



Operating data	RVM/UM	
Operating pressure:	PN 250 bar (Brass)	PN 300 bar (Stainless Steel)
Pressure drop:	see diagram above	
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
Electrical data	Normally open	Change over
IP 65 (plug connection DIN 43650 Form A)	max. 250V • 3A • 100VA	max. 250V • 1,5A • 50VA
IP 67 (1m sealed in cable)		
Atex II 2G EEx m II T6 (2m sealed in cable)	max. 250V • 2A • 60VA	max. 250V • 1A • 30VA
EEx m II T6 (2m sealed in cable)	max. 250V • 2A • 60VA	max. 250V • 1A • 30VA
EEx ia IIC T6 (2m sealed in cable)	max. 45V • 1A	max. 45V • 1A
Output signal:	The contact opens / changes, when the flow falls below the set point.	
Power supply:	Not required (potentialfree reed contacts)	
Other plug types or cable lengths on request		
Material	Brass	Stainless Steel
Wetted parts:	Brass	1.4571
Spring: (wetted part)	1.4571	
Magnets: (wetted part)	Hardferrit	
Housing: (wetted part)	Brass nickel-plated	1.4571

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