HENNLICH

## PLOVÁKOVÝ HLÍDAČ PRŮTOKU <br> RVM/U-L1

## MERES

## Flow Monitor

## 跭

AIR ${ }_{c} \mathbf{N I}_{\text {us }}\left\langle\varepsilon_{x}\right\rangle$

## 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
- UL Recognized version available
- High pressure resistance
- Threaded connection, special thread on request


## Installation information

- The operating instructions for

RVM/U-L1 Module BASICS / ...ATEX must be observed!

## - OPERATING DATA

| Operating pressure, max. | $\frac{250 \text { bar (Brass version) }}{300 \text { bar (Stainless steel version) }}$ |
| :--- | :--- |
| Pressure drop | $0,02-0,4$ bar |
| Temperature, max. | $120^{\circ} \mathrm{C}$ (optional $160^{\circ} \mathrm{C}$ ) |
| Measuring accuracy | $\pm 10 \%$ 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-L1 Module ATEX.

For UL Recognized devices, changed operating data apply. Refer to the Operating Instructions for RVM/U-L1 Module BASICS.

Download: www.meister-flow.com

| Type | Switch range for Air <br> at $\mathbf{1}$ bar abs. \& $\mathbf{2 0}^{\circ} \mathbf{C l}^{(1)}$ |  |  |
| :--- | ---: | ---: | ---: |
|  | NI/min | SCFH | SCFM |
| RVM/U-L10180 | $60-180$ | $125-380$ |  |
| RVM/U-L10300 | $100-300$ | $210-640$ |  |
| RVM/U-L10650 | $200-650$ |  | $7-23$ |

${ }^{(1)}$ The specified measuring- / switch ranges are valid for air having a density of $1.205 \mathrm{~kg} / \mathrm{m}^{3}$, 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 $20^{\circ} \mathrm{C}$ and 1.013 bar (absolute value): $1.205 \mathrm{~kg} / \mathrm{m}^{3}$
Standard density for air (at $0{ }^{\circ} \mathrm{C}$ and 1.013 bar (absolute value): $1.293 \mathrm{~kg} / \mathrm{m}^{3}$
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.


## Brass version, wetted parts

| Spring: | 1.4571 |
| :--- | :--- |
| Gaskets: ${ }^{(2)}$ | NBR (optional FKM, EPDM) ${ }^{(3)}$ |
| Magnets: | Hard ferrite |
| Device body: | Brass, nickel-plated |
| all other wetted parts: | Brass |

## Stainless steel version, wetted parts

| Spring: | 1.4571 |
| :--- | :--- |
| Gaskets: ${ }^{(2)}$ | FKM (optional NBR, EPDM) ${ }^{(3)}$ |
| Magnets: | Hard ferrite |
| Device body: | 1.4571 |
| all other wetted parts: | 1.4571 |

${ }^{(2)}$ Only with process connections
${ }^{(3)}$ Other gasket materials on request

## TECHNICAL DRAWING



## ■ SUMMARY OF TYPES

| Type Ove | dim | ons |  |  |  |  |  |  |  |  |  | Weight |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| G | DN | SW | L1 | L2 | T | D1 | D2 | A1 | A2 | A3 | A4 | [g] |
| 3/4" | 20 | 34 | 130 | 152 | 15 | 40 | 40 | - | - | - | ~98 | 1320 |
| RVM/U-L10080 ${ }_{1 \text { 1" }}$ | 25 | 40 | 130 | - | 17 | - | 40 | - | - | - | $\sim 98$ | 1130 |
| 3/4" | 20 | 34 | 130 | 152 | 15 | 40 | 40 | - | - | - | ~98 | 1320 |
| $1 "$ | 25 | 40 | 130 | - | 17 | - | 40 | - | - | - | $\sim 98$ | 1130 |
| 3/4" | 20 | 34 | 130 | 152 | 15 | 40 | 40 | - | - | - | $\sim 98$ | 1320 |
| 1" | 25 | 40 | 130 | - | 17 | - | 40 | - | - | - | $\sim 98$ | 1130 |

## ■ ELECTRICAL DATA

| Change over (COC) | $250 \mathrm{~V} \cdot 1,5 \mathrm{~A} \cdot 50 \mathrm{VA}{ }^{(4)}$ |
| :---: | :---: |
| Normally open (NOC) | 250V - 3A - 100VA |
| Change over M12x1 (-20 ${ }^{\circ} \mathrm{C}-85{ }^{\circ} \mathrm{C}$ ) | $250 \mathrm{~V} \cdot 1,5 \mathrm{~A} \cdot 50 \mathrm{VA}{ }^{(4)}$ |
| Normally open M12x1 (-20 ${ }^{\circ} \mathrm{C}-85{ }^{\circ} \mathrm{C}$ ) | 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 \& ATEX II 2 D Ex tb IIIC $\mathbf{T 8 0}{ }^{\circ} \mathrm{C}$ Db ATEX II 2 G Ex mb IIC T5 Gb \& ATEX II 2 D Ex tb IIIC $T 100^{\circ} \mathrm{C} D b$

| Change over | $250 \mathrm{~V} \cdot 1 \mathrm{~A} \cdot 30 \mathrm{VA}{ }^{(4)}$ |
| :--- | :--- |
| Normally open | $250 \mathrm{~V} \cdot 2 \mathrm{~A} \cdot 60 \mathrm{VA}$ |
|  |  |
| UL Recognized switch contacts | $240 \mathrm{~V} \cdot 1,5 \mathrm{~A} \cdot 50 \mathrm{VA}{ }^{(4)}$ |
| Change over | $250 \mathrm{~V} \cdot 3 \mathrm{~A} \cdot 100 \mathrm{VA}$ |
| Normally open |  |

[^0]- 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



[^0]:    ${ }^{(4)}$ Minimum load 3VA

