

Flow Monitor

WBMC



OVERVIEW

Operation

- Float measuring principle

Application

- Cooling systems and cooling circuits
- Mechanical engineering
- Plant construction
- Pharmaceutical industry
- Chemical industry

Features

- Universal orientation
- High reliability
- High flow rates
- EX-version according to ATEX directive available
- Threaded connection

Installation information

- The operating instructions for WBMC Module BASICS / ...ATEX must be observed!
- **Download: www.meister-flow.com**

OPERATING DATA

Operating pressure max.	180 bar
Pressure drop at 22 m³/h	0,2 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 WBMC Module ATEX.

Download: www.meister-flow.com

MEASURING RANGES

Type	Switch point for H ₂ O at 20 °C ⁽¹⁾	
	m ³ /h	
WBMC		
Lowest switch point		8
Highest switch point		20

⁽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 installation 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.

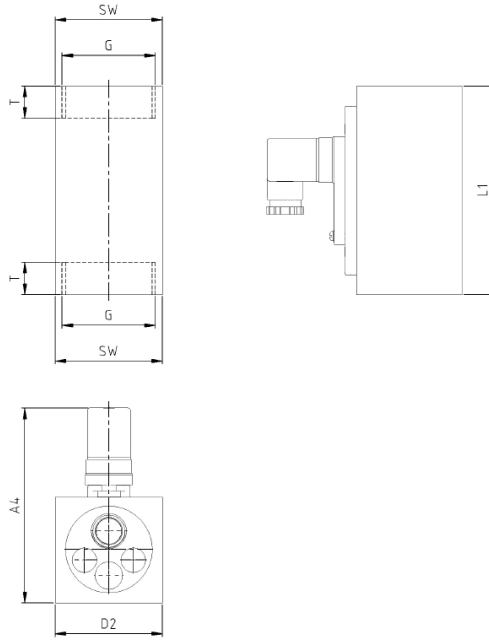
The specified switch values are switch-off points, i.e. switch values by decreasing flow.

MATERIALS

Stainless steel version, wetted parts

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

TECHNICAL DRAWING



SUMMARY OF TYPES

Type	Overall dimensions [mm]												Weight approx. [g]
	G ⁽²⁾	DN	SW	L1	L2	T	D1	D2	A1	A2	A3	A4	
WBMC	2"	50	70	136	-	25	-	70	-	-	-	~128	1340

⁽²⁾ NPT thread on request

ELECTRICAL DATA

Change over (COC)	250V · 1,5A · 50VA ⁽³⁾
Normally open (NOC)	250V · 3A · 100VA
Change over M12x1 (-20 °C – 85 °C)	250V · 1,5A · 50VA ⁽³⁾
Normally open M12x1 (-20 °C – 85 °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 T80 °C Db

ATEX II 2 G Ex mb IIC T5 Gb & ATEX II 2 D Ex tb IIIC T100 °C Db

Change over 250V · 1A · 30VA ⁽³⁾

Normally open 250V · 2A · 60VA

⁽³⁾ 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)

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

