

## Flow Monitor & Flow Indicator

# DWM/A



## OVERVIEW

### Operation

- Float measuring principle

### Application

- Cooling systems and cooling circuits
- Mechanical engineering
- Medical engineering
- Pharmaceutical industry
- Chemical industry
- Research & Development

### Features

- High reliability
- High switch accuracy
- Wide switch range
- 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 DWM/A Module BASICS / ...ATEX must be observed!
- **Download: [www.meister-flow.com](http://www.meister-flow.com)**

## OPERATING DATA

<b>Operating pressure, max.</b>	200 bar (Brass version)
	300 bar (Stainless steel version)
<b>Pressure drop</b>	0,02 – 0,2 bar
<b>Temperature, max.</b>	100 °C (optional 160 °C)
<b>Measuring accuracy</b>	±5 % of full scale

Changed operating data apply to the device in explosion-proof design according to ATEX directive. Refer to the Operating Instructions for DWM/A Module ATEX.

For UL Recognized devices, changed operating data apply. Refer to the Operating Instructions for DWM/A Module BASICS.

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

## MEASURING RANGES

Type	Switch range for H <sub>2</sub> O at 20 °C <sup>(1)</sup>		
	l/min	gph	gpm
DWM/A-1,5	0,1 – 1,5	1,5 – 23,8	
DWM/A-3	0,2 – 3	3 – 47,5	
DWM/A-8	0,3 – 8	5 – 127	
DWM/A-12	1 – 12	16 – 190	
DWM/A-18	2 – 18	32 – 285	
DWM/A-35	3 – 35	50 – 555	
DWM/A-50	4 – 50	65 – 790	

<sup>(1)</sup> The specified measuring- / switch ranges are valid for water having a density of 1.00 kg/dm<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 water at 20 °C and 1.013 bar (absolute value): 1.00 kg/dm<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

Float:	Brass, nickel-plated
Gaskets:	NBR (optional FKM, EPDM) <sup>(2)</sup>

Threaded rings:

only DWM/A-35 (1"), DWM/A-50 (1")	Brass
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Centering disc:

only DWM/A-35, DWM/A-50	Brass, nickel-plated
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Process connections:

not for DWM/A-35 (1"), DWM/A-50 (1")	Brass, nickel-plated
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all other wetted parts:	Brass, nickel-plated
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### Brass version, non-wetted parts

Indicator:	Makrolon® 1.4301
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### Stainless steel version, wetted parts

Float:	1.4571
Gaskets:	FKM (optional NBR, EPDM) <sup>(2)</sup>

Threaded rings:

only DWM/A-35 (1"), DWM/A-50 (1")	1.4571
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Centering disc:

only DWM/A-35, DWM/A-50	1.4571
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Process connections:

not for DWM/A-35 (1"), DWM/A-50 (1")	1.4571
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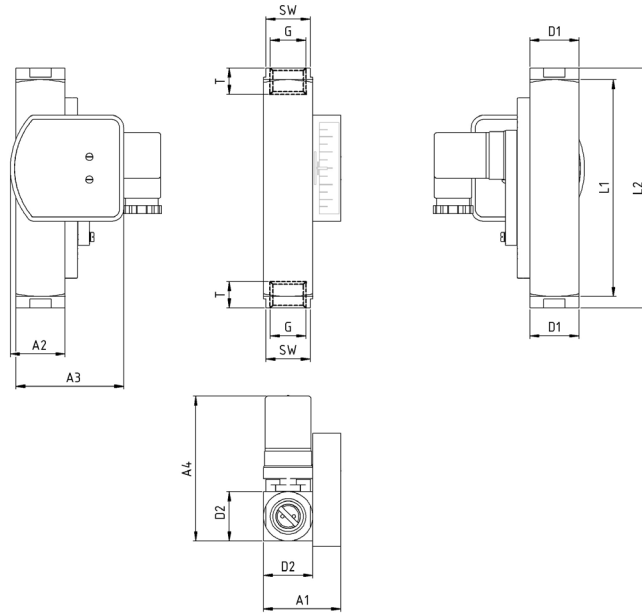
all other wetted parts:	1.4571
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### Stainless steel version, non-wetted parts

Indicator:	Makrolon® 1.4301
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<sup>(2)</sup> Other gasket materials on request

# TECHNICAL DRAWING



## SUMMARY OF TYPES

Type	Overall dimensions [mm]												Weight approx. [g]
	G	DN	SW	L1	L2	T	D1	D2	A1	A2	A3	A4	
DWM/A-1,5													850
DWM/A-3	1/4"	8	27	117	131	10	30	30	47	33,5	65,5	~88	850
	3/8"	10	27	117	131	15	30	30	47	33,5	65,5	~88	850
DWM/A-8	1/2"	15	27	117	131	14	30	30	47	33,5	65,5	~88	850
												~88	850
DWM/A-12												~88	850
DWM/A-18	1/2"	15	27	132	146	14	30	30	47	33,5	65,5	~88	850
	3/4"	20	32	132	174	15	35	30	47	33,5	65,5	~88	1010
DWM/A-35	3/4"	20	34	130	152	15	40	40	57	-	70,5	~98	1500
	1"	25	40	156	156	17	40	40	57	-	70,5	~98	1500
DWM/A-50	3/4"	20	34	130	152	15	40	40	57	-	70,5	~98	1500
	1"	25	40	156	156	17	40	40	57	-	70,5	~98	1500

## ELECTRICAL DATA

<b>Change over (COC)</b>	250V · 1,5A · 50VA <sup>(3)</sup>
<b>Normally open (NOC)</b>	250V · 3A · 100VA
<b>Change over M12x1 (-20 °C – 85 °C)</b>	250V · 1,5A · 50VA <sup>(3)</sup>
<b>Normally open M12x1 (-20 °C – 85 °C)</b>	250V · 3A · 100VA
<b>Change over PLC</b>	250V · 1A · 60VA

### EX-version in compliance with ATEX directive

<b>ATEX II 2 G Ex mb IIC T6 Gb &amp; ATEX II 2 D Ex tb IIIC T80 °C Db</b>	
<b>ATEX II 2 G Ex mb IIC T5 Gb &amp; ATEX II 2 D Ex tb IIIC T100 °C Db</b>	
<b>Change over</b>	250V · 1A · 30VA <sup>(3)</sup>
<b>Normally open</b>	250V · 2A · 60VA

### UL Recognized switch contacts

<b>Change over</b>	240V · 1,5A · 50VA <sup>(3)</sup>
<b>Normally open</b>	250V · 3A · 100VA

<sup>(3)</sup> 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)

### 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

## CONNECTION DIAGRAM

