

MASTERPIECES MADE IN GERMANY

Flow Monitor & Flow Indicator











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-L Module BASICS / ...ATEX must be observed!
- Download: www.meister-flow.com

OPERATING DATA

One reting pressure may	200 bar (Brass version)		
Operating pressure, max.	300 bar (Stainless steel version)		
Pressure drop	0,02 - 0,4 bar		
Temperature, max.	80 °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 DWM/A-L Module ATEX.

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

Download: www.meister-flow.com

■ MEASURING RANGES

Туре	Switch range for Air					
	at 1 bar abs. & 20 °C ⁽¹⁾					
	NI/min	SCFH	SCFM			
DWM/A-L1,5	1 – 28	2 - 59				
DWM/A-L3	4 - 60	8 – 127				
DWM/A-L8	6 - 160	15 – 340				
DWM/A-L12	20 - 240	40 - 510				
DWM/A-L18	40 - 360	80 - 760				
DWM/A-L50	60 - 700		2 - 24,5			
DWM/A-L100	200 - 1450		7 – 51			

⁽¹⁾ The specified measuring- / switch ranges are valid for air having a density of 1.205 kg/m³, 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 $^{\circ}\text{C}$ and 1.013 bar (absolute value): 1.205 kg/m 3

Standard density for air (at 0 $^{\circ}\text{C}$ and 1.013 bar (absolute value): 1.293 kg/m³

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 at decreasing flow.

Other measuring-/switch ranges are available upon request.

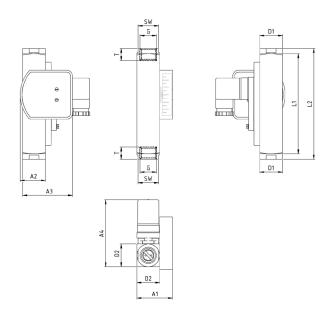
MATERIALS

Brass version, wetted parts	
Float:	POM
Gaskets:	NBR (optional FKM, EPDM) (2)
Threaded rings:	
only DWM/A-L50 (1"), DWM/A-L100 (1")	Brass
Centering disc:	
only DWM/A-L50	Brass, nickel-plated
Process connections:	
not for DWM/A-L50 (1"), DWM/A-L100 (1")	Brass, nickel-plated
all other wetted parts:	Brass, nickel-plated
Brass version, non-wetted pa	irts
Display:	Makrolon®
	1.4301

Stainless steel version, wet	ted parts
Float:	POM
Gaskets:	FKM (optoinal NBR, EPDM) (2
Threaded rings:	
only DWM/A-L50 (1"), DWM/A-L100 (1")	1.4571
Centering disc:	
only DWM/A-L50	1.4571
Process connections:	
not for DWM/A-L50 (1"), DWM/A-L100 (1")	1.4571
all other wetted parts:	1.4571
Stainless steel version, non	-wetted parts
Display:	Makrolon®
	1.4301

⁽²⁾ Other gasket materials on request

■ TECHNICAL DRAWING



■ SUMMARY OF TYPES

Туре	Overall dimensions [mm]							Weight approx.					
G DN SW L	L1	L2	T D1		D2 A1		A2	А3	A 4	[g]			
DWM/A-L1,5													850
DWM/A-L3 DWM/A-L8	1/4" 3/8" 1/2"	8 10 15	27 27 27	117 117 117	131 131 131	10 15 14	30 30 30	30 30 30	47 47 47	33,5 33,5 33,5	65,5 65,5 65,5	~88 ~88 ~88	850 850
DWM/A-L12													850
DWM/A-L18	1/2" 3/4"	15 20	27 32	132 132	146 174	14 15	30 35	30 30	47 47	33,5 33,5	65,5 65,5	~88 ~88	850 1010
DWM/A-L50	3/4"	20	34	130	152	15	40	40	57	-	70,5	~98	1500
DWM/A-L100	Į.	25 25	40	156 200		17 17	40	40	57 57	_	70,5 70,5	~98	1500 1500

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 $^{\circ}$ C ATEX II 2 G Ex mb IIC T5 Gb & ATEX II 2 D Ex tb IIIC T100 $^{\circ}$ C

Change over	250V · 1A · 30VA (3)
Normally open	250V · 2A · 60VA

UL Recognized switch contacts

Change over	240V · 1,5A · 50VA (3)
Normally open	250V · 3A · 100VA

⁽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)

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

