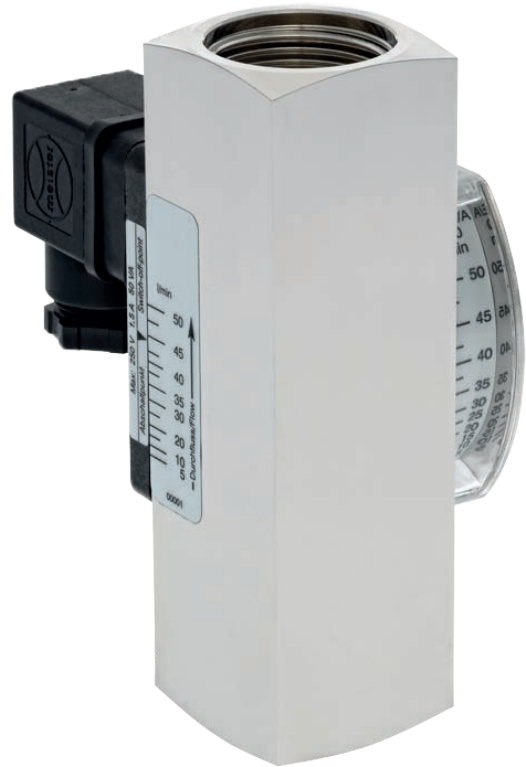


## Flow Monitor & Flow Indicator

# DKME/A-1



## OVERVIEW

### Operation

- Float measuring principle

### Application

- Mechanical engineering
- Central lubrication
- Circulation lubrication
- Transformers

### Features

- Universal orientation
- High reliability
- High switch accuracy
- Wide switch range
- Viscosity compensated
- 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 DKME/A-1 Module BASICS / ...ATEX must be observed!
- **Download: [www.meister-flow.com](http://www.meister-flow.com)**

## OPERATING DATA

<b>Operating pressure, max.</b>	250 bar (Brass version)
	300 bar (Stainless steel version)
<b>Pressure drop</b>	0,02 – 0,4 bar
<b>Viscosity range</b>	30 cSt to 600 cSt
<b>Temperature, max.</b>	120 °C (optional 160 °C)
<b>Measuring accuracy</b>	±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 DKME/A-1 Module ATEX.

For UL Recognized devices, changed operating data apply. Refer to the Operating Instructions for DKME/A-1 Module BASICS.

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

## MEASURING RANGES

Type	Switch range for Oil, density 0,9 kg/dm <sup>3</sup> <sup>(1)</sup>		
	l/min	gph	gpm
DKME/A-1/20	1 – 20	15 – 320	
DKME/A-1/40	4 – 40	60 – 630	
DKME/A-1/50	5 – 50	80 – 790	
DKME/A-1/60	8 – 60	130 – 950	
DKME/A-1/70	12 – 70		3,2 – 18,5
DKME/A-1/80	15 – 80		4 – 21,1

<sup>(1)</sup> The specified measuring- /switch ranges are valid for oils having a density of 0.9 kg/dm<sup>3</sup> and a kinematic viscosity of 30 to 600 cSt, vertical installation of the device and flow direction from bottom to top.

Other installation positions or deviation from the operating densities and operating viscosities will increase the measurement error specified in the data sheet. Excessive operating viscosities will influence or may prevent function of the device.

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

Spring:	1.4571
Gaskets:	FKM (optional NBR, EPDM) <sup>(2)</sup>
Magnets:	Hard ferrite
Device body:	Brass, nickel-plated
all other wetted parts:	Brass

### Brass version, non-wetted parts

Display:	Makrolon® / Brass, nickel-plated
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### Stainless steel version, wetted parts

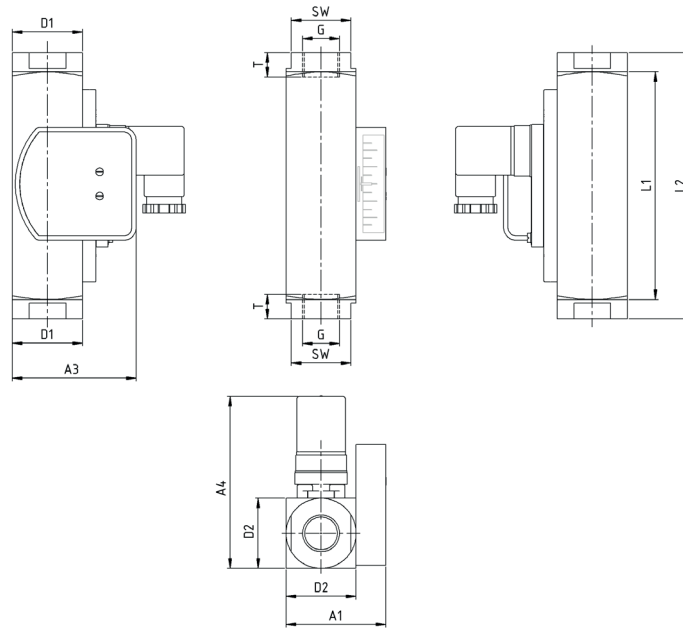
Spring:	1.4571
Gaskets:	FKM (optional NBR, EPDM) <sup>(2)</sup>
Magnets:	Hard ferrite
Device body:	1.4571
all other wetted parts:	1.4571

### Stainless steel version, non-wetted parts

Display:	Makrolon® / Brass, nickel-plated
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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	
DKME/A-1/20	1/2"	15	34	130	152	14	40	40	57	-	70,5	~98	1475
DKME/A-1/40	3/4"	20	34	130	152	15	40	40	57	-	70,5	~98	1390
	1"	25	40	130	130	17	40	40	57	-	70,5	~98	1210
DKME/A-1/50	3/4"	20	34	130	152	15	40	40	57	-	70,5	~98	1390
DKME/A-1/60	1"	25	40	130	130	17	40	40	57	-	70,5	~98	1210
DKME/A-1/70	1"	25	40	130	130	17	40	40	57	-	70,5	~98	1210
DKME/A-1/80													

## ELECTRICAL DATA

<b>Change over (CO)</b>	250V · 1,5A · 50VA <sup>(3)</sup>
<b>Normally open (NO)</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 II T6 &amp; ATEX II 2 D Ex tD A21 IP67 T80 °C</b>	
<b>ATEX II 2 G Ex mb II T5 &amp; ATEX II 2 D Ex tD A21 IP67 T100 °C</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

