



MASTERPIECES
MADE IN GERMANY

Flow Monitor & Flow Indicator

DKM/A-2



OVERVIEW

Operation

- Float measuring principle

Application

- Mechanical engineering
- Central lubrication
- Circulation lubrication
- Transformers

Features

- Universal orientation
- High reliability
- High switch accuracy
- Viscosity compensated
- Infinitely variable switch point adjustment by operator
- EX-version according to ATEX directive available
- High pressure resistance
- Threaded connection, special thread on request

Installation information

- The operating instructions for DKM/A-2 Module BASICS / ...ATEX must be observed!
- **Download: www.meister-flow.com**

OPERATING DATA

Operating pressure, max.	300 bar (Brass version) 350 bar (Stainless steel version)
Pressure drop	0,02 – 0,2 bar
Viscosity range	30 cSt to 600 cSt
Temperature, max.	120 °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 DKM/A-2 Module ATEX.

Download: www.meister-flow.com

MEASURING RANGES

Type	Switch range for Oil, density 0,9 kg/dm ³ ⁽¹⁾		
	l/min	gph	gpm
DKM/A-2/2	0,5 – 1,6	8 – 25,5	
DKM/A-2/3	0,8 – 3	13 – 48	
DKM/A-2/7	2 – 7	32 – 111	

⁽¹⁾ The specified measuring- /switch ranges are valid for oils having a density of 0.9 kg/dm³ 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 (optimal NBR, EPDM) ⁽²⁾
Magnets:	Hard ferrite
Device body:	Brass, nickel-plated
all other wetted parts:	Brass

Brass version, non-wetted parts

Display:	Makrolon® / 1.4301
----------	--------------------

Stainless steel version, wetted parts

Spring:	1.4571
Gaskets:	FKM (optimal NBR, EPDM) ⁽²⁾
Magnets:	Hard ferrite
Device body:	1.4571
all other wetted parts:	1.4571

Stainless steel version, non-wetted parts

Display:	Makrolon® / 1.4301
----------	--------------------

⁽²⁾ Other gasket materials on request

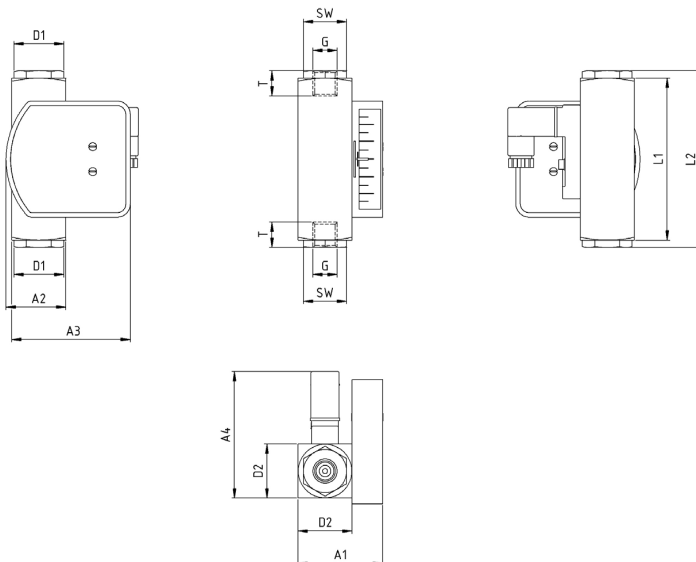


Proudly Distributed By

TRIDENT AUSTRALIA
FLUID SYSTEMS & COMPONENTS

TECHNICAL DRAWING

For devices with switch contact 15x50



SUMMARY OF TYPES

For devices with switch contact 15x50

Type	Overall dimensions [mm]												Weight approx. [g] ⁽⁴⁾
	G ⁽³⁾	DN	SW	L1	L2	T	D1	D2	A1	A2	A3	A4	
DKM/A-2/2	1/4"	8	24	90	98	10	27,5	30	47	33	66	≈70	620
	3/8"	10	24	90	119	11	27,5	30	47	33	66	≈70	670
	1/2"	15	–	90	–	14	–	30	47	33	66	≈70	570
DKM/A-2/3	1/2"	15	–	90	–	14	–	30	47	33	66	≈70	570
DKM/A-2/7													

⁽³⁾ NPT thread on request

⁽⁴⁾ Connection cable weight, 2 m approx. 80 g

DKM/A-2 3 0002 06-21 E M

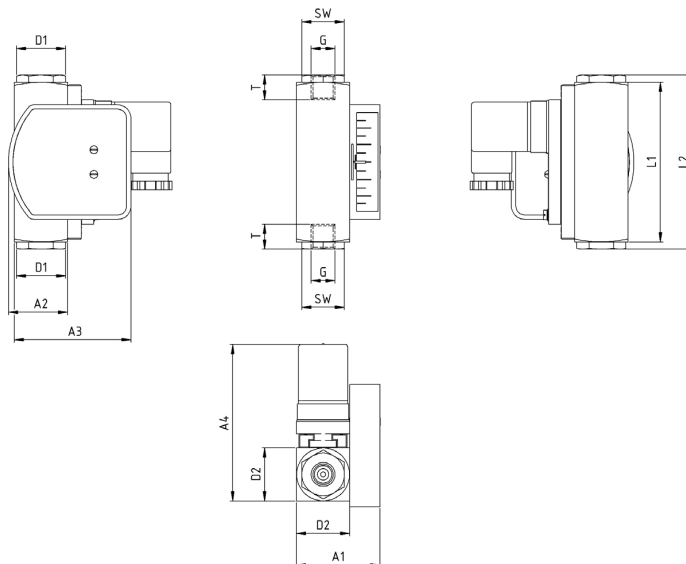


Proudly Distributed By

TRIDENT AUSTRALIA
FLUID SYSTEMS & COMPONENTS

TECHNICAL DRAWING

For devices with switch contact 30x70



SUMMARY OF TYPES

For devices with switch contact 30x70

Type	Overall dimensions [mm]												Weight approx. [g] ⁽⁶⁾
	G ⁽⁵⁾	DN	SW	L1	L2	T	D1	D2	A1	A2	A3	A4	
DKM/A-2/2	1/4"	8	24	90	98	10	27,5	30	47	33	66	≈88	620
	3/8"	10	24	90	119	11	27,5	30	47	33	66	≈88	670
	1/2"	15	–	90	–	14	–	30	47	33	66	≈88	570
DKM/A-2/3	1/2"	15	–	90	–	14	–	30	47	33	66	≈88	570
DKM/A-2/7													

⁽⁵⁾ NPT thread on request

⁽⁶⁾ Connection cable weight, 2 m approx. 80 g

DKM/A-2 4 0001 06-21 E M



Proudly Distributed By

TRIDENT AUSTRALIA
FLUID SYSTEMS & COMPONENTS

ELECTRICAL DATA

For devices with switch contact 30x70

Change over (COC)	250V · 1,5A · 50VA ⁽¹⁰⁾
Normally open (NOC)	250V · 3A · 100VA
Change over M12x1 (-20 °C – 85 °C)	250V · 1,5A · 50VA ⁽¹⁰⁾
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 ⁽⁶⁾

Normally open 250V · 2A · 60VA

⁽¹⁰⁾ Minimum load 3VA

ELECTRICAL CONNECTION

For devices with switch contact 30x70

- 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.

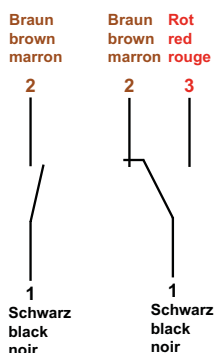
Power supply

Not required (potential-free reed contacts)

Connector types

Other connector types or cable lengths on request

CONNECTION DIAGRAM



DKM/A-2 6 0001 06-21 E M

Meister Strömungstechnik GmbH • Im Gewerbegebiet 2 • 63831 Wiesen / Germany
Tel. +49 (0) 6096 9720-0 • Fax +49 (0) 6096 9720-30 • sales@meister-flow.com • www.meister-flow.com
The general business terms of Meister Strömungstechnik GmbH are valid • All rights reserved

