

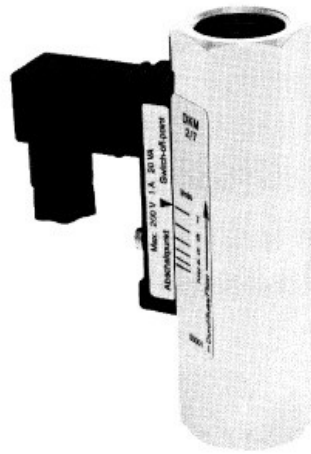
DOSYA NO (FILE NUMBER) : 23-H37
SIRA NO (ITEM NUMBER) : 31
NIIN : 12A183110
MALZEME ADI : FLOW MONITOR



MAST PERFECTS
MADE IN GERMANY

Flow Monitor

DKM-2



OIL



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-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-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-2/2	0,5 – 1,6	8 – 25,5	
DKM-2/3	0,8 – 3	13 – 48	
DKM-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 (optional NBR, EPDM) ²⁾
Magnets	Hard ferrite
Device body	Brass, nickel-plated
all other wetted parts	Brass

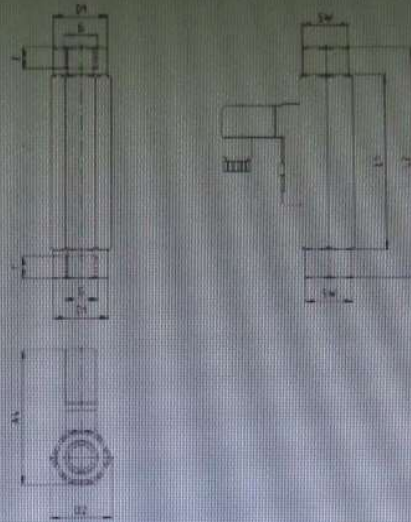
Stainless steel version, wetted parts

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

²⁾ Other gasket materials on request

■ TECHNICAL DRAWING

For devices with switch contact 15x50



■ SUMMARY OF TYPES

For devices with switch contact 15x50

Type	Overall dimensions [mm]												Weight approx. [g] ⁽¹⁾
	G ⁽²⁾	DN	SW	L1	L2	T	D1	D2	A1	A2	A3	A4	
DKM-2/2	1/4"	8	24	90	98	10	27,7	31,2	-	-	-	-67	350
	3/8"	10	24	90	118,6	11	27,7	31,2	-	-	-	-67	350
	1/2"	15	27	90	-	14	-	31,2	-	-	-	-67	350
DKM-2/3													
DKM-2/7	1/2"	15	27	90	-	14	-	31,2	-	-	-	-67	350

⁽¹⁾ NPT thread on request

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

ELECTRICAL DATA

For devices with switch contact 15x50

Change over (COC) ¹⁾	250V · 1.5A · 50VA *
Normally open (NOC)	230V · 3A · 60VA
Change over M12x1 (-20 °C - 85 °C)	125V · 1.5A · 50VA *
Normally open M12x1 (-20 °C - 85 °C)	125V · 3A · 60VA
Change over PLC ²⁾	250V · 1A · 60VA

EX-version in compliance with ATEX directive

EC-Type examination

EPS 13 ATEX 1 596 U

Connection to certified intrinsically safe circuits

Li = 0

Cl = 0

Gas			Dust		
Ui	Ii	Pi	Ui	Ii	Pi
< 12,1 V	1,0 A	3,0 W	< 12,1 V	0,25 A	0,75 W
< 20 V	0,309 A	1,55 W	< 20 V	0,25 A	0,75 W
< 25 V	0,158 A	0,99 W	< 25 V	0,25 A	0,75 W
< 30 V	0,101 A	0,76 W	< 30 V	0,25 A	0,75 W

Operating temperature

-5 °C < T_{amb} < 45 °C

¹⁾ Available with connector only

* Minimum load 3VA

Marking

Ⓔ II 2G Ex ib IIC
Ⓔ II 2D Ex ib IIC

ELECTRICAL CONNECTION

For devices with switch contact 15x50

- Connector in compliance with EN 175301-803, Form C (DIN 43650, Form C)
- Connector M12x1
- Cable 11 m³⁾

EX-version in compliance with ATEX directive

- Connector in compliance with EN 175301-803, Form C (DIN 43650, Form C)
- Connector M12x1
- Cable 11 m³⁾

Ingress Protection

IP65: Connector in compliance with EN 175301-803, Form C or Connector M12x1

IP67: Cable

Output signal

The contact opens / changes when the flow decreases below the set point.

Power supply

Not required (potential-free reed contact)

Connector types

Other connector types or cable lengths on request

³⁾ Available as Normally Open Contact (NOC) only

CONNECTION DIAGRAM

