

Impeller Flowmeter DOSF/L and DOGF/L



Method of operation

The flowmeters utilize an impeller which is set into motion when a gas flows through the unit. The speed at which the impeller rotates is, over a wide range, proportional to the amount of gas passing through the unit, which allows accurate determination of the flow rate. The rotor rpm is sensed by optoelectrical means.

Range of application

Measuring and monitoring of gas

Applicability:

- constructional engineering
- laboratories
- chemical industry

Measuring range

DOSF/L- 30 and DOGF/L- 30
1 – 30 l/min air
DOSF/L-130 and DOGF/L-130
20 – 130 l/min air

Special features

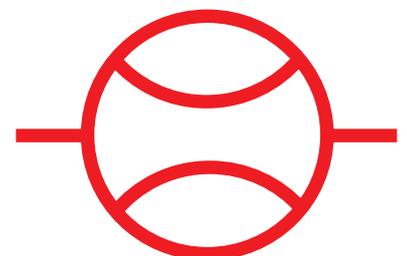
- high degree of reliability
- highly accurate
- hose or threaded connections

Mounting position

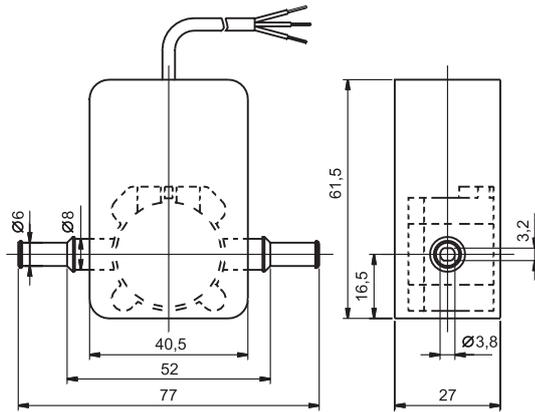
The units function in any mounting position and allows maximum flexibility in system integration. Ensure correct direction of flow at installation.

Maintenance requirements

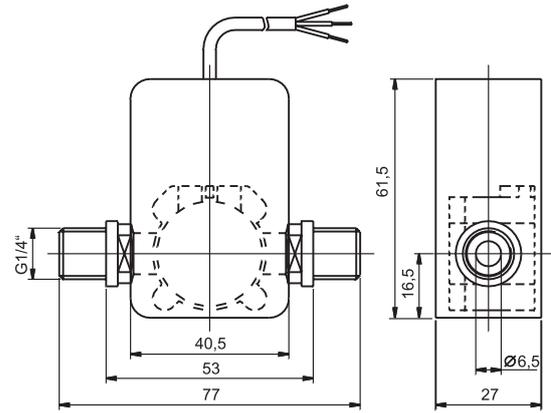
The flowmeters require low maintenance. However, the system should be purged and cleaned of impurities at regular intervals.



Installation Diagram for DOSF/L-30 and DOSF/L-130

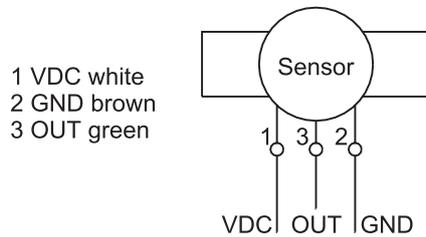


Installation Diagram for DOGF/L-30 and DOGF/L-130

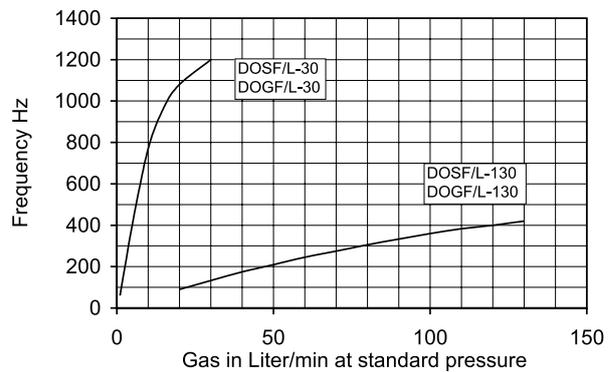


Wiring diagram

Operating voltage 5 – 12 VDC



Frequency characteristics



Operating Data:	DOSF/L-30	DOGF/L-30	DOSF/L-130	DOGF/L-130
Range:	1 – 30 l/min	1 – 30 l/min	20 – 130 l/min	20 – 130 l/min
Accuracy of measurement:	± 3 % of rate			
Repeatability:	± 0,8 % of rate			
Max. operating pressure:	10 bar	10 bar	10 bar	10 bar
Bursting pressure (at 22°C):	15 bar	15 bar	15 bar	15 bar
Operating temperature:	-10 to +40 °C *			
Protection class:	IP 54	IP 54	IP 54	IP 54
Signal output:	square wave	square wave	square wave	square wave
Max. current output (at 12 V):	2,5 mA	2,5 mA	2,5 mA	2,5 mA
Voltage requirement:	5 – 12 VDC			
Connetcing cable (1m):	3 x 0,14 mm ² LIYY			
Electrical connections:	see wiring diagram			
Outer housing:	ABS	ABS	ABS	ABS
Sensor housing:	POM	POM	POM	POM
Impeller:	POM	POM	POM	POM
Axle and bearing:	NIVAPPOINT / POM	NIVAPPOINT / POM	NIVAPPOINT / POM	NIVAPPOINT / POM
O-Rings (selective):	FKM / EPDM	FKM / EPDM	FKM / EPDM	FKM / EPDM
Weight:	approx. 42 g	approx. 42 g	approx. 42 g	approx. 42 g
Connections:	6/8 mm	G 1/4"	6/8 mm	G 1/4"

* Special design up to + 70 °C upon request

technical changes and amendments reserved

meister
strömungstechnik
Im Gewerbegebiet 2 · D – 63831 Wiesen

Telefon : 0 60 96 / 97 20 - 0
Telefax : 0 60 96 / 97 20 - 30
E - Mail: Info@meister-flow.com
Internet: http://www.meister-flow.com