DF PADDLE WHEEL FLOW SENSOR



Flow
Pressure
Level
Temperature
measurement
monitoring
control





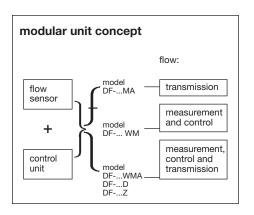
Represented by:
M.A. Selmon Company, Inc.
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Stratford, CT 06615
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sales@maselmon.com

Model: DF





DF-... with female thread



Flow Sensor DF

The main feature of the KOBOLD DF flow sensor is the incorporation of a multipole magnet ring into the paddlewheel. As the paddlewheel rotates, these magnets, hermetically separated from the fluid medium, induce an DC signal in a Hall sensor mounted on the device housing. Since the DC signal frequency is proportional to paddlewheel rotation, an accurate flowrate reading is possible.

The DF sensor, when coupled with the appropriate KOBOLD electronics unit, can offer the user a number of features useful in the measurement and control of fluid flow. These features include an analog output, adjustable switches, batch controller, or totalizer.

Specifications

Accuracy: ± 2.5% of full scale **Media:** water and low viscosity liquids

Orientation: universal Fittings: 1/8" NPT ... 11/2" NPT, flange ANSI 1/2", 1", 11/2"

7 different material combination: trogamid,

polysulfone, brass, SS, teflon



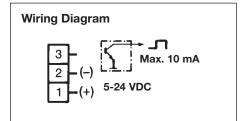
DF-...
with flange

	Sta	High Pressure Design				
Materials combination	1	II/IIB*	III	IV*	VI*	VII*
Connecting type	Female thread	Female thread	Female thread	Female thread flange	Female thread	Female thread flange
Housing	Trogamid	Polysulfone/PP	Brass Nickel-plated	SS	Brass Nickel-plated	SS
Housing lid	Trogamid	Polysulfone/PP	Polysulfone	Polysulfone	Brass Nickel-plated	SS
Connection	Brass Nickel-plated	SS/PP	Brass Nickel-plated	SS	Brass Nickel-plated	SS
Locking pins O-rings	Brass Buna-N	Brass Viton	Brass Buna-N	– Viton	– Buna-N	– Viton
Paddle wheel	Delrin	Teflon	Delrin	Teflon	Delrin	Teflon
Axle Axle Bearing	SS Teflon	SS/Ceramic Teflon	SS Teflon	SS Teflon	SS Teflon	SS Teflon
Orifice	Teflon ²	Teflon ²	Teflon ²	Teflon ²	Teflon ²	Teflon ²
Max. operating pressure PSI	145	145/85	230	230	1450	1450 (with flange 580)
Max. operating temperature (°F)	145	180	180	180	180	180

DF - Paddle Wheel Flow Sensor

Description

The Kobold DF Flow Sensor is used in applications where flow measurement is desired and flow rate data is to be transmitted as a pulse rate output. the DF Flow Sensor contains a flow transducer which transmits a pulse signal. the output signal is linearly proportional to the flow and is transmitted by a bipolar transistor operating in an open collector configuration (10 mA sinking capability).



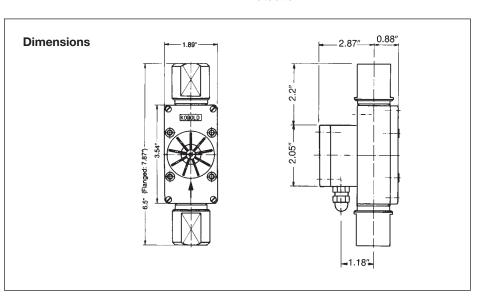
Specifications

Power Supply: + 5 to + 24 VDC Open Collector: + 5 to + 24 VDC,

10 mA max.

Temperature Range: -10°F to 180°F

(145°F DF-01...) **Protection:** NEMA 4





Order Numbers											
Range water	Stand. conn.	Dia. of Orifice	Press. drop	DF Flow Sensor Material Combination Range							
			max.	I	II	II B	III	IV	VI	VII	Size
GPM	NPT	inches	PSI	DF-01	DF-02	DF-00	DF-03	DF-04	DF-06	DF-07	
0.02- 0.14	1/8"	0.04	10.2								01
0.05- 0.30	1/4"	0.08	4.2								02
0.05- 0.60	1/4"	0.08	10.4								03
0.1 - 0.7	1/4"	0.11	9.6								04
0.2 - 2.5	3/8"	0.19	12.1								05
0.4 - 5	1/2"	0.32	2.9								06
0.5 - 6	3/4"	0.32	4.4								07
0.5 -12	3/4"	0.49	4.4								08
1 –25	11/4"	0.59	15.9								09
1.5 –36	11/4"	0.73	13.5								10

Options (add suffix to order number)			
Special conn. NPT	For flange connection (only material		
Suffix "-B" 1/4" 3/8"	combination IV and VII) Suffix "FL"		
3/8" 3/8" 1/2"			
3/ ₄ " 1"			
1 ¹ / ₂ " 1 ¹ / ₂ "	on request		

Note to place an order

- 1. Select the sensor order no.
- 2. Select the required suffix

For example: DF-0109B

All Sensors will be delivered with calibration certificate