# Flow Sensor for continuous low-flow measurement and batch control



The compact low-flow sensor Type 8031 with paddle—wheel and hall sensor is specially designed for use in aggressive and solid—free liquids.

The particular cost attractive measuring principle is based on a local flow velocity measurement. The sensor produces a flow proportional frequency signal which can easily be transmitted and processed.

We recommend here particularly the connection to the Burkert low-flow transmitter Type 8025 (see separate data sheet).

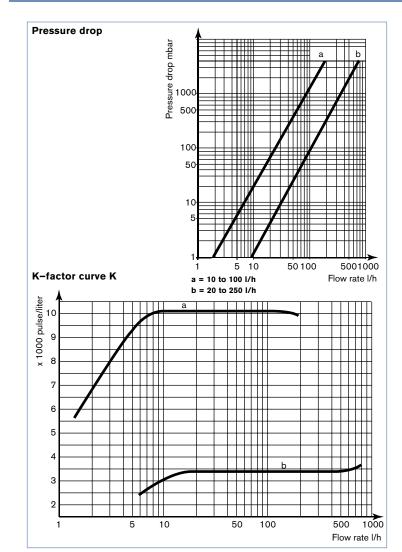
Technical data			
Measuring range	2.6 gph (10 l/h) to 27.0 gph (100 l/h) 5.3 gph (20 l/h) to 66 gph (250 l/h)		
Accuracy	±2% of reading		
Repeatability	<1%		
Ambient temperature	14°F to 131°F ( (-10°C to 55°C)		
Storage temperature	14°F to 176°F(-10°C to 80°C)		
Fluid temperature	14°F to 131°F (-10°C to 55°C)		
Fluid pressure	MAX. 145 PSI at 68°F (10 bar at 20°C)		
Viscosity of fluids	1 to 10 cst.		
Materials Housing Paddle-wheel Axis Bearings Magnets Gasket	ECTFE (Halar) or POM ECTFE (Halar) or POM Saphir or COREPOINT™ Rubin or POM ECTFE (Halar) encapsuled or blank FKM, EPDM or FFKM.		
K-factor	38,611 pulse/gal (10,200 pulse/liter) (range 2.6 to 27 gph) 12,870 pulse/gal (3,400 pulse/liter) (range 5.3 to 66 gph)		
Output signal	Open collector NPN Pull-up resistance of 2,2 kΩ Standard feature between +VDC (white wire) and signal (green wire)		
Frequency	0 to 780 Hz		
Voltage supply	12-24 VDC		
Electrical connection	3-wire leads (36" length)		
Current consumption	max. 15 mA at 24V		
Enclosure	IP67		



#### **Dimensions**

## Hose 6/4 77 35 G 1/4" 8 62 G1/4-34. 1 Color ring: FKM green **EPDM** black white FFKM Installation universal Flow direction vertical in arrow direction = best air exhaust

### Pressure drop and K-factor curve



### Ordering chart Low-Flow Sensor Type 8031

Measuring range	Process connection	Paddle-wheel / Axis	Gasket	Item no.
2.6 to 27.0 g/h	Hose 6 mm	POM/Corepoint	FKM	783 717
	G1/4"	POM/Corepoint	FKM	783 719
5.3 to 66 g/h	Hose 6 mm	POM/Corepoint	FKM	783 718
	G1/4"	POM/Corepoint	FKM	783 720
2.6 to 27.0 g/h	G1/4"	ECTFE/Saphir	FKM	783 721
	G1/4"	ECTFE/Saphir	EPDM	783 722
	G1/4"	ECTFE/Saphir	FFKM	783 723
5.3 to 66 g/h	G1/4"	ECTFE/Saphir	FKM	783 724
	G1/4"	ECTFE/Saphir	EPDM	783 725
	G1/4"	ECTFE/Saphir	FFKM	783 726
2.6 to 27.0 g/h	G1/4"	ECTFE/Corepoint	FKM	437 982
	G1/4"	ECTFE/Corepoint	EPDM	438 531
5.3 to 66 g/h	G1/4"	ECTFE/Corepoint	FKM	438 532
	G1/4"	ECTFE/Corepoint	EPDM	437 524

In case of special application conditions, please consult for advice.

We reserve the right to make technical changes without notice.

0602/3\_US-en