



SF800 - LOW PRESSURE FLOW METER

The patented SF800 is an all-purpose flow meter with an excellent price-performance ratio. It is suitable for a wide range of applications and large variety of fluids, and covers flow velocities of 0.5 to 20 liter per minute at temperatures of -20 to +90 °C and an operating pressure of 16 bar (max 40 bar).

The SF800 is entirely made of high-quality plastics and composites with great chemical and thermal resilience. The housing is made of PVDF, a high grade PVC, while the internal rotor of only 0.04 gram is made of Vectra, a liquid crystal polymer of very low weight. Both materials are not susceptible to limescale.

An integrated PCB emits the infrared signal, which is interrupted by the three blades of the rotor. SMD components transform the interrupted signal into a pulse. Because of the construction and geometry of the rotor housing, the SwissFlow flow sensors can withstand high pressure.

Range

Flow velocity*:	0.5 – 20 liter per minute
Temperature:	-20 – +90 °C
Operating pressure:	16 bar
Max. pressure:	40 bar

Technical information SF-800

Process connections:	3/8" hose barb; 3/8" BSP Male
Excitation:	5 to 24 VDC, 12 to 24 mA
Power consumption:	12 – 36 mA/s
Material:	PVDF, Vectra (rotor), Viton or EPDM
Output:	Block-pulse / Frequency
Output frequency:	100 to 2000 Hz (depending on the flow velocity)
K-factor:	5500 pulse/liter
Length cable:	15 cm standard (different length on request)
Connector electronics:	3-wire flat cable sealed in housing (Jack-plug, Din or Molex connector on request)

Reliability

Interchangeability**:	+/- 2.25 %
Accuracy:	+/- 1.00 %
Reproducibility:	+/- 0.30 %

Medium

Medium type:	clear or translucent liquids that do not block infrared light
Viscosity:	1-1000 Cst
Examples:	water, chemicals, oil, beer, syrup

* Other ranges available upon request

** Upon request, interchangeability can be less than 1%