

## Flow Transmitter / Monitor PSF20x

- ◆ Excellent price-to-performance ratio
- ◆ Unique ultra-light-rotor technology
- ◆ Exceptional accuracy and reliability
- ◆ Operates with liquids with viscosity from 1 to 1000 CST
- ◆ Linear voltage or current output
- ◆ RS232 interface available
- ◆ Local programmable LED display
- ◆ Chemically resistant variant available

PSF20x is a programmable flow transmitter/monitor designed for use with low-viscose clear or translucent liquids, transmitting IR light. The operating principle is based on the liquid volume measurement through light-weight rotor, IR sensor, and sophisticated electronics converting flow rate into a standard linear output signal. An RS232 serial interface is also available. The material types used (PVDF, Vectra®, Viton®, EPDM, etc.) have a good thermal (up to 90 °C) resistance. A special variant with increased chemical resistance also extends the transmitter application. Other ranges except the standard 0.5...20 l/min flow range are available on request. PSF20x is equipped with a keyboard and a local 3-digit LED display for easy programming and flow monitoring and can be used both as a flow meter and transmitter suitable for water treatment and other applications.



### Technical specifications

Input		Local indicator	
Liquid type	clear or translucent liquid transmitting IR light <sup>(1)</sup>	Digital display	3 LED indicators, 14 mm
Liquid viscosity	1...1000 CST	Display resolution	0.1
Flow range	0.5...20 l/min <sup>(2)</sup>	Display refresh	1 s
Measurement accuracy		Device calibration	through the keyboard
Accuracy	± 1.00%	Accuracy	0.2% from span
Interchangeability	1.00%	Temperature drift	0.01% from span for 1 °C
Reproducibility	max. ± 0.30%	Keyboard	2 membrane keys
Analog output	(user selectable)	Operating conditions	
Current signal	0(4)...20 mA, 3-wire	Process temperature	-20...90 °C
Voltage signal	0...10 V	Ambient temperature	-10...65 °C
Output function	input signal info retransmission	Storage temperature	-20...85 °C
Maximum output load	750 Ω at 24V/20 mA	Process pressure	max. 12 bar
Interface		Design and materials	
Interface type	RS232	PSF200	PSF201
Function	data transmission	Wetted parts	PVDF, Viton®, Vectra®, SS 316
Protocol	ASCII, free	Seals	EPDM, epoxy
Power supply		Case material	ABS/PC plastic
Supply voltage	15...32 VDC	Mounting	free <sup>(3)</sup>
Admissible variations	4 Vp-p at 50 Hz	Process connection	2 x G1/2", male
Consumption	max. 55 mA	Wiring	4-pin connector M12 <sup>(4)</sup>
		Dimensions	105x92x60 mm
		Weight	max. 270 g
		Protection class (housing)	IP65

<sup>(1)</sup> Liquid medium must be compatible with wetted part and seal materials!

<sup>(2)</sup> Other ranges are available on request.

<sup>(3)</sup> Radial, axial, and DIN-rail mounting accessories for 80x80x60 mm box can be ordered separately (see 'Accessories').

<sup>(4)</sup> On top of case 'H'; on the right side of cases 'V'

### Ordering code PSF20★ - G0.G9

Code	Feature or option	Code values
*	Variant	0 - standard, 1 - chemically resistant <sup>(5)</sup>
G0	Case	H - for horizontal left-to-right flow, V1 - for vertical up-to-down flow, V2 - for vertical down-to-up flow
G9	Serial interface	X - none, A - RS232

<sup>(5)</sup> Limited with wetted part and seal material resistance!