

## Flow Controller PSF210

- ◆ Excellent price-to-performance ratio
- ◆ Unique ultra-light-rotor technology
- ◆ Exceptional accuracy and reliability
- ◆ Operates with liquids with viscosity from 1 to 1000 CST
- ◆ Alarm/Control output with 2 programmable limits
- ◆ Local programmable LED display
- ◆ Maintenance-free

PSF210 is a programmable flow controller 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 for measurement and control. The material types used (PVDF, Vectra®, Viton®, EPDM, stainless steel) have an exceptional chemical and thermal (up to 90 °C) resistance. Other ranges except the standard 0.5...20 l/min are available on request. PSF210 is equipped with a local 3-digit LED display and a key for easy programming and flow monitoring as well as with a PNP or NPN alarm output that activates when either of the programmable alarm limits is reached. PSF210 can be used as a flow meter, ON/OFF flow controller, or alarm unit suitable for water treatment and other applications.

### Technical specifications

#### Input

<b>Liquid type</b>	clear or translucent liquid transmitting IR light <sup>(1)</sup>
<b>Liquid viscosity</b>	1...1000 CST
<b>Flow range</b>	0.5...20 l/min <sup>(2)</sup>

#### Measurement accuracy

<b>Accuracy</b>	± 1.00%
<b>Interchangeability</b>	1.00%
<b>Reproducibility</b>	max. ± 0.30%

#### Alarm/Control output *(user selectable)*

<b>Alarm type</b>	"window"
<b>Alarm/control limits</b>	programmable
<b>Output type</b>	PNP or NPN
<b>Output ratings</b>	max. 100 mA, max. 40 V
<b>Output function</b>	ON/OFF, NO or NC (programmable)

#### Power supply

<b>Supply voltage</b>	18...30 VDC
<b>Admissible variations</b>	2 Vp-p at 50 Hz
<b>Consumption</b>	max. 200 mA

<sup>(1)</sup> Liquid medium must be compatible with wetted parts!

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



#### Local indicator

<b>Digital display</b>	3 LED indicators, 10 mm
<b>Display resolution</b>	0.1 l/min
<b>Display refresh</b>	1 s
<b>Temperature drift</b>	0.01% from span for 1 °C
<b>LED indicator</b>	for alarm event
<b>Keyboard</b>	1 membrane key

#### Operating conditions

<b>Process temperature</b>	-20...90 °C
<b>Ambient temperature</b>	-10...65 °C
<b>Process pressure</b>	max. 16 bar

#### Design and materials

<b>Wetted parts</b>	PVDF, Viton®, Vectra®, EPDM, stainless steel
<b>Case material</b>	stainless steel
<b>Mounting</b>	free
<b>Process connection</b>	2 x G1/2" male nipples
<b>Wiring</b>	3-wire cable
<b>Dimensions</b>	100x60x45 mm
<b>Weight</b>	max. 200 g
<b>Protection class (housing)</b>	IP67

### Ordering code PSF210 - G5.G8

Code	Feature or option	Code values
G5	Relay output	E - NPN, F - PNP
G8	Cable length [m] and type	1PV...10PV - PVC, 1SL...10SL - silicone, 1TF...10TF - Teflon®