efectorsoo

ifm electronic

Pressure sensors

PG2794

Electronic pressure sensor with analog display PG27

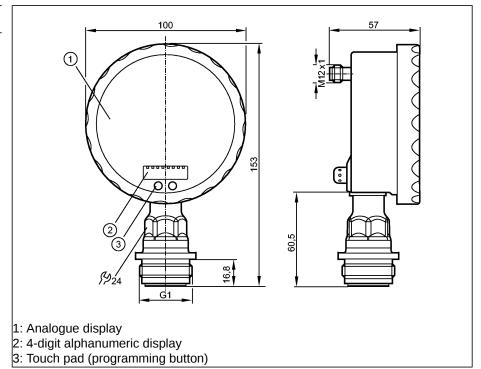
Quick disconnect
Process connection G1 / Aseptoflex
Vario

Suitable for all standard CIP and SIP processes
Analog display 0...350° rotatable
Resolution 0.25%
Pointer not visible when unit disconnected

2 Output
OUT1 = Switching output
OUT2 = Analog output

analog display, 4-digit alphanumeric display

Measuring range -1.00...10.00 bar -14.5...145.0 PSI





(€



Made in Germany



[V]

Application

Electrical design

Operating voltage

Output

Operating voltage	[L
Current rating	[mA]
Short-circuit protection	
Reverse polarity protection	
Overload protection	
Integrated watchdog	
Voltage drop	[V]
Current consumption	[mA]
Analog output	
Load for analog output [Ω]	
Pressure rating	
Bursting pressure min.	
Extended display range (max.)	

Setting range

Set point, SP
Reset point, rP
Analog start point, ASP
Analog end point, AEP
in steps of

Type of pressure: relative pressure

Hygienic systems, viscous media and liquids with suspended particles Liquids and gases

DC PNP/NPN

1 x normally open / closed programmable + 1 x analogue (4...20 / 20...4 mA, scalable)

1832 DC		
250		
Yes (non-latching)		
yes		
yes		
yes		
< 2		
< 70 (24 V)		
I: 420 mA (Ineg: 204 mA)		
I / Ineg: max. (Ub - 10 V) x 50		
50 bar	725 PSI	
150 bar	2175 PSI	
16 bar	232 PSI	
-0.9816.00 bar	-14.2232.0 PSI	

-14.5...231.8 PSI

-14.5...195.7 PSI 21.8..232.0 PSI

0.1 PSI

-1.00...15.98 bar

-1.00...13.50 bar

1.50...16.00 bar 0.01 bar

efectorsoo



PG2794

Accuracy / deviations (in % of the span) Turn down 1:1

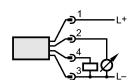
Turn down 1:1	
Switch point accuracy	< ± 0.2
Characteristics deviation *)	< ± 0.2
Linearity	< ± 0.15
Hysteresis	< ± 0.15
Repeatability **)	<±0.1
Long-term stability ***)	<±0.1
Temperature coefficients (TEMPCO)	
in the temperature range 070° C (in	
% of the span per 10 K)	
Greatest TEMPCO of the zero point	< ± 0.05
Greatest TEMPCO of the span	< ± 0.15
Power-on delay time [s]	6
Min. response time switching output	
[ms]	10
Damping for the switching output	
(dAP) [s]	0.0130
Switching frequency [Hz]	50
Damping for the analog output (dAA)	
[s]	0.0130
Step response time analogue output	
[ms]	25
Ambient temperature [°C]	-2580
Medium temperature [°C]	-25125 (145 max. 1h)
Storage temperature [°C]	-40100
Protection	IP 67 / IP 69K, III
Insulation resistance $[M\Omega]$	> 100 (500 V DC)
Shock resistance	DIN IEC 68-2-27:50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6:20 g (102000 Hz)
Switching cycles min.	100 million
EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated: 10 V/m
	EN 61000-4-4 Burst: 2 kV
	EN 61000-4-5 Surge: 0.5/1 kV
	EN 61000-4-6 HF conducted: 10 V
MTTF [Years]	100
Housing materials	stainless steel 316L / 1.4404; PA; FPM (Viton); PTFE; viewing glass: laminated
	safety glass 4 mm
Materials (wetted parts)	ceramics (99.9 % Al2 O3); PTFE; stainless steel 316L / 1.4435; surface
	characteristics: Ra < 0.4 / Rz 4
Display	Display unit 2 x LED green
	Switching status LED yellow
	Switch points LED ring
	Function display 4-digit alphanumeric display
Commontion	Measured values analog display, 4-digit alphanumeric display
Connection	M12 connector; gold-plated contacts
Weight [kg]	0.556
Remarks	*) linearity, incl. hysteresis and repeatability;
	(limit value setting to DIN 16086)
	characteristics deviation in the extended display range:1.5 % of the
	span
	switch point accuracy in the extended display range: 1.5 % of the span
	**) with temperature fluctuations < 10 K
	***) in % of the span per year

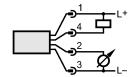
efectorsoo



PG2794







ifm efector, inc. 782 Springdale Drive, Exton, PA 19341 — We reserve the right to make technical alterations without prior notice. — US — PG2794 — 21.05.2010