

EPS202

Electronic Pressure Switches with Display

Description

EPS202 electronic pressure switches are designed for applications in pressure monitoring systems or pressure control systems. Featuring accuracy up to 0.25%fs and excellent stability, the EPS202 switches are widely used to monitor process pressures in industrial automation systems to generate switching signal to switch on or switch off the system or the actuator at the set points.

The EPS202 switch is integrated with a high-precision piezoresistive pressure sensor. The analogue signal of the sensor is converted into digital signal via a 16-bit A/D converter and processed by a microprocessor in the switch.

Model EPS202 can provide single, dual, or up to four relay signals for control purpose. On request, these products can also be supplied with an additional 4~20mA output. The display and output can be set or adjusted via the buttons on the front panel of the display.



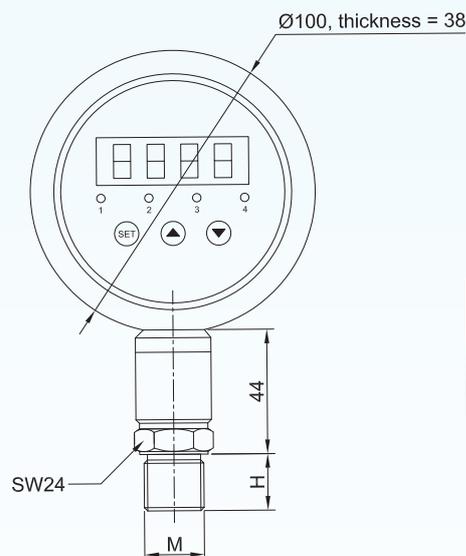
Features

- wide pressure ranges from 0~0.1bar to 0~600bar
- control signal up to 4 relays
- accuracy up to 0.25%fs
- excellent stability and reliability
- programmable zero, span and set points
- CPU based, 16-bit A/D converter, 4/s sampling rate
- 4-digit LED display with back light

Applications

- pressure monitoring systems
- pressure control systems

Dimensions



Thread Type (M)	Height (H)
M20×1.5	20mm
M12×1	15mm

Note: All dimensions are in mm.

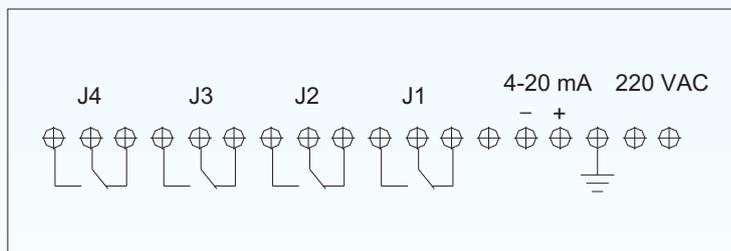
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EPS202-series Electronic Pressure Switches with Display

Technical Data

Parameters	Units	Specifications
pressure medium		liquids or gases compatible with 316LSS
pressure ranges	barG	0~0.1, ..., 0~600 (refer to ordering information for available ranges)
overload pressure	%fs	200 (150 for range 0~600 bar)
output signal		up to 4 relay signals (AC 220V/3A, DC 30V/3A)
		option: additional 4~20mA
accuracy	%fs	±0.25, ±0.5 (standard)
long term stability	%fs/year	±0.2
power supply		24Vdc (standard), 220Vac at 50±1Hz
max. power consumption	W	≤5
life time	cycles	>100,000
relative humidity	%RH	<80
storage temperature range	°C	-20 ~ +125
operating temperature range	°C	-20 ~ +80
compensated temperature range	°C	0 ~ 70, 0~50 (for range ≤0~0.1bar)
material of pressure diaphragm		316L SS
mechanical interface		M20x1.5 male thread (standard), M12x1 male thread
electrical interface		terminals on the backside of display
display		4-digit LED display with back light
environment protection		IP66
unit weight	kg	~0.85

Electrical Connections:



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Ordering Information

position (pos.) 1: model							
EPS202							
pos. 2: pressure ranges and reference							
0.1barG	1barG	10barG	100 barG	G: gauge pressure			
0.16barG	1.6barG	16barG	160 barG				
0.25barG	2.5barG	25barG	250 barG				
0.4barG	4barG	40barG	400 barG				
0.6barG	6barG	60barG	600 barG				
pos. 3: number of relay/output signal							
1relay: single relay output							
2relay: dual relay outputs							
3relay: 3 relay outputs							
4relay: 4 relay outputs							
(#+4/20mA): relay with additional analog output of 4~20mA as option.							
#: Number of relays, e.g., (4relay+4/20mA).							
pos. 4: accuracy							
0.25%fs							
0.5%fs (standard)							
pos. 5: power supply							
24Vdc (standard)							
220Vac: 220Vac at 50±1Hz							
pos. 6: mechanical interface							
M20x1.5 (standard)							
M12x1							
Other thread types are available on request.							
pos. 7: electrical interface							
TE: terminals at the backside of display							
pos. 8: customized spec's							
“(*)” is necessary only if any customized parameter is required, otherwise it is neglectable.							
pos.1	pos. 2	pos. 3	pos. 4	pos. 5	pos. 6	pos. 7	pos. 8

Examples of Ordering Code

- standard switch:

EPS202-16barG-(4relay+4/20mA)-0.5%fs-24Vdc-M20x1.5-TE

- customized switch:

EPS202-10/50barG-(4relay+4/20mA)-0.5%fs-24Vdc-M20x1.5-TE-(*)

(*): Customized pressure range = 10~50 barG.

The listed specifications, dimensions, and ordering information are subject to change without prior notice.

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