

# IMPRESS

SENSORS & SYSTEMS

Unit 6B, Mercury House, Calleva Park  
Aldermaston, Berkshire, RG7 8PN

Tel: +44 (0)118 981 7980

Fax: +44 (0)118 981 7990

e-mail: [info@impress-sensors.co.uk](mailto:info@impress-sensors.co.uk)

Website: [www.impress-sensors.co.uk](http://www.impress-sensors.co.uk)

---

Pressure - Temperature - Level - Flow - Analytical - Control - Indication - Data logging

## The factory-set pressure switches.



---

Visit the website: [www.impress-sensors.co.uk](http://www.impress-sensors.co.uk)

Company Reg. No.: 4346738, VAT No.: 786 6596 54, Reg Address: IMPress Sensors & Systems Ltd, Unit 6B, Mercury House, Calleva Park, Aldermaston, Berkshire, RG7 8PN

## Pressure switch 901

with factory-set pressure setting

### Application

Factory-set pressure switch monitoring overpressure, vacuum or differential pressure of liquid and gaseous – also aggressive – media.

Pressure setting and switching differential are factory-set by the manufacturer.

### Temperature range

Ambient temperature from  $-20^{\circ}\text{C}$  to  $85^{\circ}\text{C}$ .  
 Temperature of media up to  $85^{\circ}\text{C}$  or  $130^{\circ}\text{C}$  depending on material of pressure connection and diaphragm.

### Diaphragm material

Depending on media NBR, Silicone, FKM (Viton®), EPDM.  
 For 901.30 Silicone, others upon request.

### Electrical rating

Values indicated for resistive load

AgNi-contacts: 6 (1.5) A/250 VAC  
 2 A/24 VDC  
 Gold-plated contacts: 100 mA/24 VAC  
 30 mA/24 VDC

AgNi-contacts up to 10 A/250 VAC can be supplied upon request.

### Electrical connection

AMP connection 6.3 mm x 0.8 mm DIN 46244.

### Pressure connection

Type	Tube connection			Threaded connection					
	5.0 mm FS	6.5 mm FS	10.0 mm FS	M 10 x1	G 1/8	M 10 x1	G 1/8	G 1/4	G 1/2
901.1x	PA	PA PPS	PA PPS	PA PVDF	PA PVDF	CuZn40 V <sub>2</sub> A	CuZn40 V <sub>2</sub> A	CuZn40 PVDF/V <sub>2</sub> A	CuZn40
901.2x	PA	PA PPS	PA PPS	PA PVDF	PA PVDF	CuZn40 V <sub>2</sub> A	CuZn40 V <sub>2</sub> A	CuZn40 PVDF/V <sub>2</sub> A	CuZn40
901.30		PA							
901.41						CuZn40 V <sub>2</sub> A	CuZn40 V <sub>2</sub> A	CuZn40 V <sub>2</sub> A	CuZn40
901.51						CuZn40 V <sub>2</sub> A	CuZn40 V <sub>2</sub> A	CuZn40 V <sub>2</sub> A	

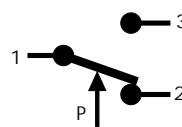
PA = polyamide, PVDF = polyvinylidene fluoride, PPS = polyphenylsulfide, CuZn40 = brass, FS = fastening spring

For temperature above  $85^{\circ}\text{C}$  brass, PVDF or PPS pressure connection is required. Upon request pressure connections of other sizes, other plastics or stainless steel are available.

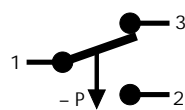
Viton® is a registered trademark of DuPont Dow Elastomers.

### Arrangement of contacts

for 901.1x, 901.30,  
 901.41, 901.51



only for 901.2x



### Approvals

CE conformance according to EC Low Voltage Directive 73/23/EEC. Product types tested by TÜV Südwest.

### Life

Minimum  $10^6$  cycles.

### Damping

Restrictors alternatively with 0.3/0.5/0.8 mm diameter.

### Accessories

Various mounting brackets and protection caps with IP 44, IP 54 and IP 65.

### Mounting position

Mounting in any position, to be specified for settings below 100 mbar.



### Overpressure range

Type	Factory-set trip pressure		Standard switching differential		Tolerance band in % of trip pressure	Maximum positive working pressure standard/ extended	Maximum negative working pressure standard/ extended
	between	and	lower end of range	upper end of range			
901.1x	5 mbar	200 mbar	2.5 mbar	50 mbar	±10 %	0.5/4 bar	-/-1 bar
	200 mbar	1.000 mbar	50 mbar	150 mbar	±10 %	1/4 bar	-/-1 bar
901.41	500 mbar	3.000 mbar	200 mbar	600 mbar	±10 %	10 bar	-1 bar
901.51	1.0 bar	12 bar	0.2 – 0.5 bar	1.0 – 2.0 bar	±10 %	25 bar	-1 bar

### Vacuum range

Type	Factory-set trip pressure		Standard switching differential		Tolerance band in % of trip pressure	Maximum positive working pressure standard/ extended	Maximum negative working pressure standard/ extended
	between	and	lower end of range	upper end of range			
901.2x	- 5 mbar	- 200 mbar	2.5 mbar	50 mbar	±10 %	0.5/4 bar	-1 bar
	- 200 mbar	- 900 mbar	50 mbar	150 mbar	±10 %	1/4 bar	-1 bar

### Differential pressure range

Type	Factory-set trip pressure		Standard switching differential		Tolerance band in % of trip pressure	Maximum positive working pressure standard/ extended	Maximum negative working pressure standard/ extended
	between	and	lower end of range	upper end of range			
901.30	5 mbar	50 mbar	2.5 mbar	25 mbar	±10 %	100 mbar	-100 mbar

Visit the website: [www.impress-sensors.co.uk](http://www.impress-sensors.co.uk)

# Pressure switch 901

with factory-set pressure setting

