



## **Diffusion Silicon Differential Pressure Switch/ Transmitter DPR300**

**Differential Pressure Switch cum Transmitter  
Suitable to measure & control flow and pressure of  
gases in variety of industrial applications.**

### **Salient Features**

- **In-built Temperature Compensation Circuit**
- **Reference Accuracy up to 0.5%**
- **Current & Voltage Output Options available**
- **Overpressure limit is 3 times the Rated Pressure**
- **Wide Working Temperature Range**
- **Switching Options Available**
- **Available with Display and without display options**
- **Variety of Process Connection Options**
- **Economical & Value adding Solution for Industries**

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## DPR300 Differential Pressure Switch cum Transmitter

### Technical Parameters

Char.	Parameter
Medium	Gas
Range	0 – 100 Pa ~ 10,000 Pa; Customized
T <sub>Ambient</sub>	-42° C ~ +80° C
T <sub>Storage</sub>	-20° C ~ +125° C
Overpressure Limit	3 x Rated Span Pressure Limit
One Way Overload Limit	Unidirectional load can reach up to Span Pressure Limit
Output	2-Wire, 4-20 mADC Analog/0 – 10 V/ 1 – 5 V
Power Supply	12 – 32 VDC (Rated 24 VDC)
Stability	±0.5%URL/ year
Sensor Type	Diffused Silicon
Load	$R \leq (U_s - 12)/ I_{max}$ kΩ $U_{max} = 32VDC$ $I_{max} = 23 mA$
Electrical Connection	Direct Lead, M12 Plug-in, Hirschman Connectors
Process Connection MOC	Stainless Steel
Filling Fluid	Silicone Oil or Fluorine Oil
Housing MOC	Aluminium
Square Root Output Accuracy	1.5 times the Linear reference accuracy
Switching Options	Normally Open; Normally Closed; None
Display	With and Without LED Display options
Ingress Protection	IP65

### DPR300 Model Selection Table

10 Accuracy						
						E Reference Accuracy 0.5 % F Reference Accuracy 1.0 % G Reference Accuracy 2.0 %
20 Span						
						P100 0 ~ 100 Pa P500 0 ~ 500 Pa K002 0 ~ 2000 Pa K010 0 ~ 10000 Pa C000 Customization
30 Power Supply						
						1 24VDC
40 Output						
						S1 4 – 20 mADC S3 0 ~ 10 VDC S4 1 ~ 5 VDC S5 0 ~ 5 VDC S0 None
50 Switching Values						
						KN None K1 Normally Open K2 Normally Closed
60 Process Connection						
						C11 Φ8 Agnail Connection C12 Φ10 Agnail Connection C13 Φ812Agnail Connection C00 Customization
70 Electrical Connection						
						J01 Directly Lead J02 M12 Plug-in Connector J03 Hirschman Connection J00 Customization
80 LCD Display						
						N No Y Yes