

High endurance type pressure transducer PRN01 / PRN02 series

2023/03/22

Features



- ASIC(Application Specific I.C.) amplifier is installed.
- High performance type pressure transmitter with a little temperature effect and excellent in noise.
- Total accuracy : ± 1.0 %F.S.

(Including the temperature effect from -20°C to 70°C .)

- The newly developed high stability and low current strain gage has been used for the diaphragm made of 17-4 PHs.

★ Application

Injection molding machine, Press machine, Various pump systems, Hydraulic apparatus

Specification

Specification name	Specification contents
Rated capacity	5 MPa~100MPa
Safe overload	150 %R.C.
Ultimate overload	
Accuracy	± 1.0 %F.S. (including non-linearity, hysteresis, repeatability)
Rated output	Current : 4 mA ~ 20 mA, Voltage : 0 V ~ 5 V, 1 V ~ 5 V
Response frequency	

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PRN02 series**

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Power supply voltage	12 VDC ~ 28 VDC
Insulation resistance	1 000 MΩ or more (50 VDC)
Temp. range, compensated	-20 °C ~ 70 °C
Temp. range, safe	-30 °C ~ 80 °C
Temp. effect on zero	±2.0 %F.S./-20 °C ~ 70 °C
Temp. effect on output	±2.0 %F.S./-20 °C ~ 70 °C
Cable	φ4.7, shielded 1 m cable directly attached, cable end is separated
Class of protection	IP65 or equivalent
Material of element	Stainless steel
Mounting screw	G3/8{PF}, R3/8{PF} (PRN02-100MP : G1/2{PF}, R1/2{PF})

Table of P/N

Parts No.	Rated capacity [Mpa]	Weight(Approx.) [g]	CAD files[DXF]	CAD files 2[DXF]	3D CAD files [STEP]	3D CAD files 2 [STEP]
PRN02-5MP**S*	5	70	prn02_g38.dxf	prn02_r38.dxf	PRN02-5MP**S*-G.STEP	PRN02-5MP**S*-R.STEP
PRN02-10MP**S*	10	70	prn02_g38.dxf	prn02_r38.dxf	PRN02-10MP**S*-G.STEP	PRN02-10MP**S*-R.STEP
PRN02-20MP**S*	20	70	prn02_g38.dxf	prn02_r38.dxf	PRN02-20MP**S*-G.STEP	PRN02-20MP**S*-R.STEP
PRN02-35MP**S*	35	70	prn02_g38.dxf	prn02_r38.dxf	PRN02-35MP**S*-G.STEP	PRN02-35MP**S*-R.STEP
PRN02-50MP**S*	50	70	prn02_g38.dxf	prn02_r38.dxf	PRN02-50MP**S*-G.STEP	PRN02-50MP**S*-R.STEP
PRN02-100MP**S*	100	70	prn02_g38.dxf	prn02_r38.dxf	PRN02-100MP**S*-G.STEP	PRN02-100MP**S*-R.STEP