

# Small type pressure transducer PRJ series for high / low temperature measurement

2023/03/22

## Features



- Use upto a temperature (150 °C)
- Compact size and light weight, easy to install/detach.

## Specification

Specification name	Specification contents
Rated capacity	1 MPa ~ 10 MPa
Safe overload	150 %R.C.
Ultimate overload	300 %R.C.
Rated output	PRJ-1MP: 1 mV/V±0.2 mV/V, PRJ-2MP: 1.5 mV/V±0.3 mV/Vy PRJ-5MP~10MP: 1.5 mV/V±0.15 mV/V
Non-linearity	0.3 %R.O.
Hysteresis	0.3 %R.O.
Repeatability	0.3 %R.O.
Excitation, recommended	6 V or less
Excitation, maximum	10 VDC
Zero balance	±0.05 mV/V
Input resistance	373.6 Ω±5 Ω

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Output resistance	350 Ω±5 Ω
Insulation resistance	1 000 MΩ or more. (50 VDC) (between lead and main body.)
Temp. range, compensated	-40 °C ~ 150 °C
Temp. range, safe	-40 °C ~ 150 °C
Temp. effect on zero	0.25 %R.O./10 °C
Temp. effect on output	0.5 %LOAD/10 °C
Connector	PRC03-32A10-7F10.5
Cable	φ5.6, 4 -cores shielded1.5 mcable for high temperature directly attachedwith NDI-7P-J(Jack) at the cable end.
Class of protection	IP60 or equivalent
Material of element	Stainless steel
Mounting screw	R1/8{PT}

## Table of P/N

Parts No.	Rated capacity [Mpa]	Ultimate overload [%R.C.]	Rated output [mV/V]	Tolerance of rated output [mV/V]	Non-linearity [%R.O.]	Hysteresis [%R.O.]
PRJ-1MP	1	300	1	0.2	0.3	0.3
PRJ-2MP	2	300	1.5	0.3	0.3	0.3
PRJ-5MP	5	300	1.5	0.15	0.3	0.3
PRJ-10MP	10	300	1.5	0.15	0.3	0.3

Parts No.	Repeatability [%R.O.]	Natural frequency [KHz]	Weight(Approx.) [g]	CAD files[DXF]	3D CAD files [STEP]
PRJ-1MP	0.3	22	45	<a href="#">prj1_5mp.dxf</a>	<a href="#">PRJ-1MP.STEP</a>
PRJ-2MP	0.3	28	45	<a href="#">prj1_5mp.dxf</a>	<a href="#">PRJ-2MP.STEP</a>
PRJ-5MP	0.3	45	45	<a href="#">prj1_5mp.dxf</a>	<a href="#">PRJ-5MP.STEP</a>
PRJ-10MP	0.3	82	60	<a href="#">prj10mp.dxf</a>	<a href="#">PRJ-10MP.STEP</a>