

# Small and high response type pressure transducer PRC series

2023/03/22

## Features



- High response typ with flash diaphragm.
- Compact size, Easy mounting or detaching

## Specification

Specification name	Specification contents
Rated capacity	1 Mpa ~ 100 MPa
Safe overload	150 %R.C.
Ultimate overload	300 %R.C.
Rated output	1.5 mV/V $\pm$ 0.015 mV/V (PRC-1MP:1 mV/V(+0.2, -0.1)mV/V)
Non-linearity	0.5 %R.O.
Hysteresis	0.5 %R.O.
Repeatability	0.5 %R.O.
Excitation, recommended	3 V or less
Excitation, maximum	6 VDC
Zero balance	$\pm$ 0.225 mV/V (PRC-1MP : $\pm$ 0.25mV/V)
Input resistance	120 $\Omega$ $\pm$ 1.2 $\Omega$
Output resistance	120 $\Omega$ $\pm$ 1.2 $\Omega$

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Insulation resistance	1 000 MΩ or more. (50 VDC) (between lead and main body.)
Temp. range, compensated	-10 °C ~ 50 °C
Temp. range, safe	-10 °C ~ 75 °C
Temp. effect on zero	0.8 %R.O./10 °C
Temp. effect on output	0.8 %LOAD/10 °C
Connector	PRC03-32A10-7F10.5
Cable	φ6.3, 4 -cores 30cm cable directly attached with NDI-7P-J (Jack) at the cable end
Class of protection	IP64 or equivalent
Material of element	Stainless steel
Mounting screw	G3/8{PF}

### 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.]
PRC-1MP	1	300	1	0.15	0.5	0.5
PRC-2MP	2	300	1.5	0.15	0.5	0.5
PRC-5MP	5	300	1.5	0.15	0.5	0.5
PRC-10MP	10	300	1.5	0.15	0.5	0.5
PRC-20MP	20	300	1.5	0.15	0.5	0.5
PRC-50MP	50	300	1.5	0.15	0.5	0.5
PRC-100MP	100	300	1.5	0.15	0.5	0.5

Parts No.	Repeatability [%R.O.]	Natural frequency [KHz]	Weight(Approx.) [g]	CAD files[DXF]	3D CAD files [STEP]
PRC-1MP	0.5	26	120	<a href="#">prc1_50mp.dxf</a>	<a href="#">PRC-1MP.STEP</a>
PRC-2MP	0.5	37	120	<a href="#">prc1_50mp.dxf</a>	<a href="#">PRC-2MP.STEP</a>
PRC-5MP	0.5	56	120	<a href="#">prc1_50mp.dxf</a>	<a href="#">PRC-5MP.STEP</a>
PRC-10MP	0.5	83	120	<a href="#">prc1_50mp.dxf</a>	<a href="#">PRC-10MP.STEP</a>
PRC-20MP	0.5	109	120	<a href="#">prc1_50mp.dxf</a>	<a href="#">PRC-20MP.STEP</a>
PRC-50MP	0.5	174	120	<a href="#">prc1_50mp.dxf</a>	<a href="#">PRC-50MP.STEP</a>
PRC-100MP	0.5	292	120	<a href="#">prc100mp.dxf</a>	<a href="#">PRC-100MP.STEP</a>