

# Flash diaphragm type pressure transducer PRO series

2023/03/22

## Features



- Compact and light weight  $\phi 15$  mm x 33 mm, Approx. 25 g
- Screw M10 x P1.0
- Non-linearity 0.5 %R.O. / Hysteresis 0.5 %
- Safe temperature range : -30 dc ~ 150 dc
- Compact flash diaphragm type (Bolt shape)
- High response, and no need to pulling out in the pressure inlet.
- Application
  - Industrial machine that measures pressures such as adhesive, paste, paints and grease.
  - Experimental uses of adapting for car such as hydraulic brakes and air conditioner compressors.
  - testing set to which it gives priority to high response

## Specification

Specification name	Specification contents
Rated capacity	2 Mpa ~ 20MPa
Safe overload	150 %R.C.
Ultimate overload	200 %R.C.
Rated output	$\pm 1.0$ mV/V $\pm 0.3$ mV/V
Non-linearity	0.5 %R.O
Hysteresis	0.5 %R.O
Excitation, recommended	1.5 VDC / 2.0 VAC
Excitation, maximum	3 VDC
Zero balance	$\pm 1.6$ mV/V
Input resistance	350 $\Omega$ + 40 $\Omega$

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Input resistance	350 Ω±40 Ω
Output resistance	350 Ω±40 Ω
Insulation resistance	1 000 MΩ or more. (between lead and main body.)
Temp. range, compensated	-30 °C ~ 150 °C
Temp. range, safe	-40 °C ~ 160 °C
Temp. effect on zero	±0.8 %F.S./10 °C
Temp. effect on output	±0.8 %LOAD/10 °C
Connector	PRC03-32A10-7F10.5
Cable	φ3.8, 4-cores shielded 30 cm cable directly attached.
Class of protection	IP65 or equivalent
Material of element	Stainless steel
Mounting screw	M10×P1.0

## 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.]
PRO-2MP	2	200	1	0.3	0.5	0.5
PRO-5MP	5	200	1	0.3	0.5	0.5
PRO-10MP	10	200	1	0.3	0.5	0.5
PRO-20MP	20	200	1	0.3	0.5	0.5

Parts No.	Natural frequency [KHz]	Weight(Approx.) [g]	CAD files[DXF]
PRO-2MP	8.7	25	<a href="#">pro.dxf</a>
PRO-5MP	14.0	25	<a href="#">pro.dxf</a>
PRO-10MP	19.8	25	<a href="#">pro.dxf</a>
PRO-20MP	28.0	25	<a href="#">pro.dxf</a>