

SPECIFICATIONS

Small and High Response Type
Pressure Transducer

Pressure Transducer
PRC-1MP ~ 100MP

SPEC.No.EN221022

1/2

Performance

Rated capacity	: 1 MPa ~ 100 MPa
Safe overload	: 150 %R.C.
Ultimate overload	: 300 %R.C.
Rated output	: 1.5 mV/V \pm 0.15 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.

Electrical

Excitation, recommended	: 3 V or less
Excitation, at maximum	: 6 V
Zero balance	: \pm 0.225 mV/V (PRC-1MP : \pm 0.25 mV/V)
Input resistance	: 120 \pm 1.2
Output resistance	: 120 \pm 1.2
Insulation resistance	: 1 000 M or more (DC 50 V)

(between bridge and main body)

Temperature

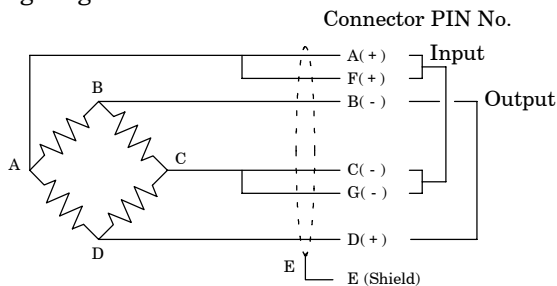
Temperature range, compensated	: - 10 to 50
Temperature range, safe	: - 10 to 75
Temperature effect on zero balance	: 0.8 %R.O./10
Temperature effect on output	: 0.8 %LOAD/10

Cable	: 6.3, 4-cores shielded
	30 cm directly attached, with NDI-7P-J(jack) at cable end
	P/N of connector : PRC03-32A10-7F10.5

Class of protection	: IP64 or equivalent (Main body only)
Material of element	: Stainless steel
Durability	: 10 ⁶ times with rated load applied.

Note) R.O. means Rated Output and also R.C. means Rated Capacity.

Wiring diagram



Composition

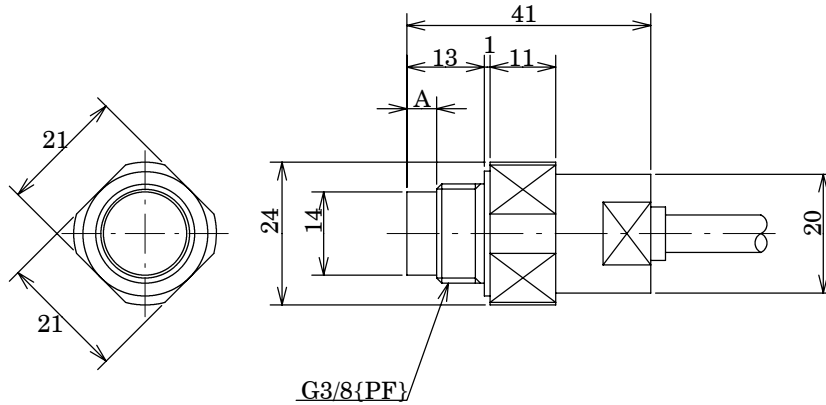
Composition	
Main body	1
Cap for pressure inlet	1
Aluminium packing(21 × 17 × 1) (PRC-1MP ~ 20MP)	2
Copper packing (Only for PRC-50MP, 100MP)	2
Connector cap	1
Inspection data sheet	1

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Outline dimensions

Unit : mm

P/N	Rated capacity	A	Natural frequency (Approx.kHz)	Weight (Approx.g)
PRC-1MP	1 MPa	5	26.5	120
PRC-2MP	2 MPa	5	37.6	120
PRC-5MP	5 MPa	5	56	120
PRC-10MP	10 MPa	5	83	120
PRC-20MP	20 MPa	5	109	120
PRC-50MP	50 MPa	5	174	120
PRC-100MP	100 MPa	3	292	120

Specifications and outline dimensions and so on which have printed may subject to change for the purpose of improvement.