

Model :PR-41,42

Compact ,Flush Mounted,
Local Indicating Pressure Transmitter&Transducer.



PR-41,42 Series Digital Pressure Transmitter는 소형의 Indicator를 부착한 제품으로 식품생산공정이나 음료자동생산기기등에 설치가 용이하며, 전면에 Digital display는 사용자의 시스템관리를 도와준다. 지시계 케이스는 투명 Polycarbonate로 내구성이 강하다. 또한 Piezoresistive Ceramic Sensing Element는 저렴한 비용으로 효율적인 Process관리를 가능하게 하고 부식성이 강한 매체도 측정이 가능하다. 특히 접촉부 전면이 Flush diaphragm으로 설계되어 식품이나 음료생산 공정에 적합하며, 점성이 있는 측정매체의 압력을 계측하는데 적합하다. 측정된 값은 현장에서 LED 4 digit로 표시되며, 전류신호로 장거리 전송이 가능하다. 특히 PR-41,42은 자동화 시스템이나 Process Control에 적합하며, 현장 측정치의 확인이 필요한 기계장치나 계측장비에 적합한 디지털 압력전송기이다.

- Flush ceramic diaphragm
- Front attached display
- Cost effective
- High corrosion resistant
- Compact design
- High accurate, durable & reliable
- Wide Measuring Ranges
- LED 3-digits Local display
- A wide range of application in ;
- Food & beverage process controls
- Chemical industry
- Machinery for paint, ink, resin
& dough process
- Cosmetic & pulp industries
- Pharmaceuticals

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TECHINCAL DATA

Input

Measuring Principle	Piezoresistive Ceramic Pressure Cell
Pressure Reference	Gauge, Absolute, Vacuum & Compound
Measuring Ranges(bar)	Gauge : 0~1, 2, 3, 4, 5, 8, 10, 15, 20, 25, 35 Absolute : 0~1, 2, 5, 10, 20, 35 Vacuum : -1~0 Compound : -1~1, 2, 3, 5, 10, 20, 35 Note : Other ranges are available on request
Over Pressure Limit	1.5 × Full scale without damage

Output

Output Signal	4~20mA DC, 2-wire 1~5V, 0~10V DC, 3-wire(Optional)
Local Display	3 Digits, 7-segment digital LED

Electrical Specification

Electrical Connection	Provico-41 : 4-pin L-plug, DIN 43 650, IP65 Provico-42 : Flying lead with PG 9 connector
Excitation Voltage	18~36V DC
Load Resistance max. @24V	500 ohm at 24V
Influence Of Excitation	0.01% FSO/V
Reverse Polarity	Protected
Response Time	≤1.5 milliseconds
Adjustment	10 : 1 Range turn-down

Performance Specification

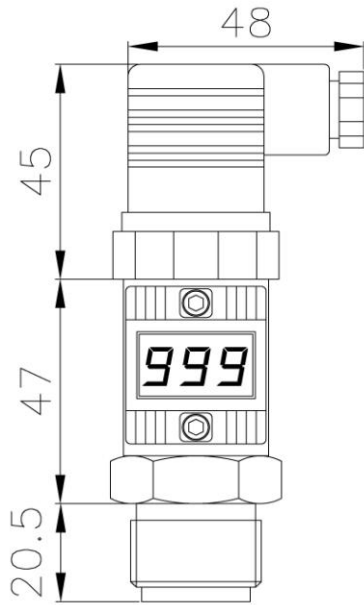
Accuracy	±0.5% FS
Non-linearity	±0.20% FS typical
Repeatability	±0.20% FS typical
Pressure Hysteresis	±0.050% FS typical
Long-term Stability	±0.3% FS over 6 months
Operation Temperature Range	-40~125 °C
Compensated Temperature Range	0~70 °C

Physical Specification

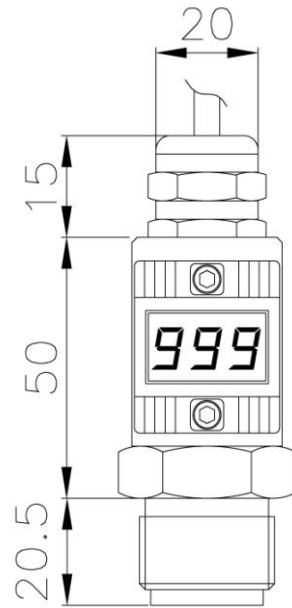
Process Connection	Thread Type : PT, NPT, PF Thread Size : 3/4", 1", 1 1/2" Other connections available such as JIS, ANSI, DIN Flange
Process Media	Gases & liquids compatible with Stainless steel 316 & Ceramic Al ₂ O ₃ , 96%
Materials	Field case : ALDC Wetted parts : Stainless steel 316 Diaphragm : Ceramic Al ₂ O ₃ , 96%
Enclosure Rate	IP65

DIMENSION

PR-41



PR-42

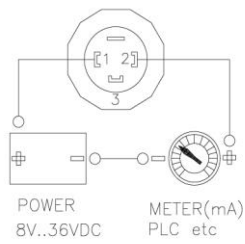


Electrical Connection(wiring)

2-wire system

4-pin L-plug, DIN 43 650

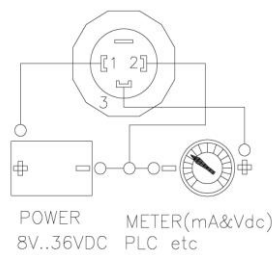
Flying lead



3-wire system

4-pin L-plug, DIN 43 650

Flying lead



ORDERING INFORMATION

Model

PR-41 : 4-pin L-plug, DIN 43 650, IP65
 PR-42 : Flying lead, 1.5m, IP67
 PR-41N,PR-42N : None display

Pressure Reference

R : Gauge pressure
 A : Absolute pressure
 V : Vacuum
 C : Compound pressure

Process Connection Type

A : NPT
 B : PT
 C : PF
 X : Other types of connection available on request

Process Connection Size

1 : 3/4"
 2 : 1"
 3 : 1 1/2"
 X : others on request

Range

110	: -1~0	122	: -1~1
111	: 0~0.1	123	: -1~2
112	: 0~0.2	124	: -1~5
113	: 0~0.5	125	: -1~10
114	: 0~1	126	: -1~15
115	: 0~2	127	: -1~20
116	: 0~5	128	: -1~25
117	: 0~10	129	: -1~35
118	: 0~15		
119	: 0~20		
120	: 0~25		
121	: 0~35		

Unit

A : kgf/cm² or mmHg+kgf/cm²
 B : mmHg
 C : bar
 D : psi
 E : Mpa
 F : Kpa
 X : Other calibration unit available on request

Output Signal

0 : None-output(Only digital gauge)
 1 : 4~20mA DC, 2-wire
 2 : 1~5V DC, 3-wire(Optional)
 3 : None display

Option

1 : None
 x : Sealed diaphragm,

PR-41	R	B	3	117	A	1	X
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Note 1) Other ranges are available on request.

Note 2) Please mark "abs." for absolute pressure.