

COMPACT, PROGRAMMABLE, FLUSH MOUNTED LOCAL INDICATING PRESSURE TRANSMITTER

FEATURES

- Compact field case
- Programmable digital pressure transmitter
- Variable functions
- Range turn-down
- High accurate, durable & reliable
- Flush ceramic diaphragm
- Wide Measuring Ranges
- LED 4-digits Local display

APPLICATIONS

- A wide range of application in ;**
- Food & beverage process controls
- Chemical industry
- Machinery for paint, ink, resin & dough process
- Cosmetic & pulp industries
- Pharmaceuticals



GENERAL DESCRIPTION

KP-40 Series Digital Pressure Transmitter는 Microprocessor를 내장한 고정도의 압력전송기이다. 알루미늄 다이캐스팅 Field Terminal은 소형사이즈로 설치공간이 협소한 Process에서도 사용이 가능하며, 전면부의 조작키를 이용하여 손쉽게 다양한 기능을 조정할 수 있다. 또한 Piezoresistive Ceramic Sensing Element는 저렴한 비용으로 효율적인 Process관리를 가능하게 하고 부식성이 강한 매체도 측정이 가능하다.

특히 접속부 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 KP-40은 자동화 시스템이나 Process Control에 적합하며, 현장 측정치의 확인이 필요한 기계장치나 계측장비에 적합한 디지털 압력전송기이다.

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 DC, 3-wire(Optional)
Local Display	4 Digits, 7-segment digital LED

Electrical Specification

Electrical Connection	Weather-proofed field case
Conduit Connection	1/2"PF,Female
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% FSO
Non-linearity	±0.20% FSO typical
Repeatability	±0.20% FSO typical
Pressure Hysteresis	±0.050% FSO typical
Long-term Stability	±0.3% FSO over 6 months
Operation Temperature Range	-40~125°C
Compensated Temperature Range	0~70°C

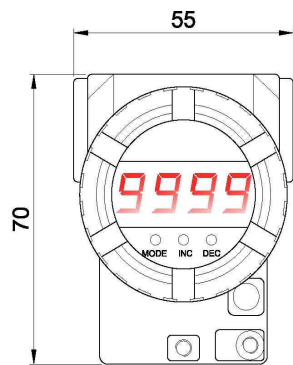
Physical Specification

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 Al2 O3, 96%
Materials	Field case : ALDC Wetted parts : Stainless steel 316 Diaphragm : Ceramic Al2 O3, 96%
Enclosure Rate	IP65

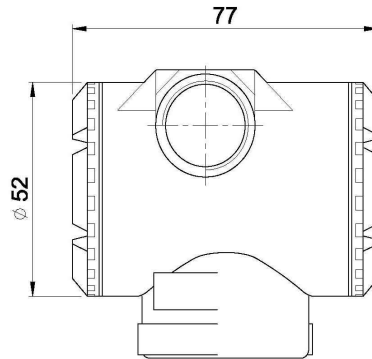
DIMENSION

Terminal Head

Front View

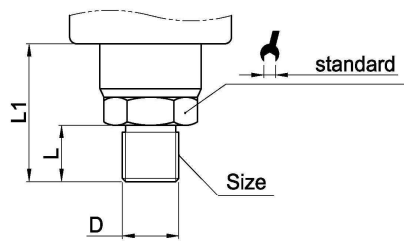


Side View



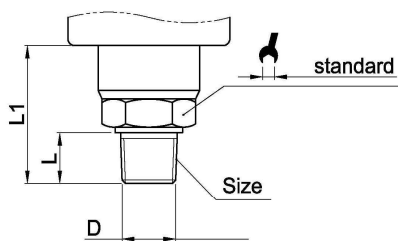
Wetted Parts

PF Connection



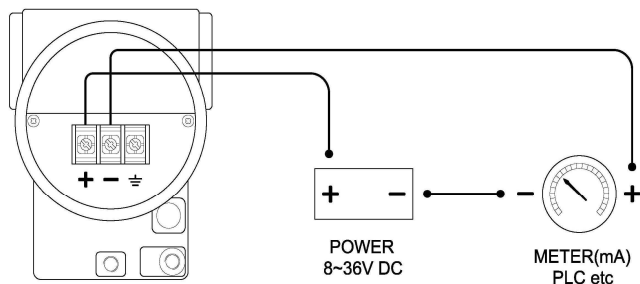
size	D	L	L1
PF11/2	47.8	26.0	54.0
PF 1	33.2	24.0	52.0
PF3/4	26.4	22.0	50.0

PT Connection



size	D	L	L1
PT11/2	47.8	24.0	52.0
PT 1	33.2	22.0	50.0
PT3/4	26.4	20.0	48.0

Electrical Connection



ORDERING INFORMATION

Model		Order Code
		KP-40
Pressure reference	R : Gauge pressure	R
	A : Absolute pressure	
	V : Vacuum	
	C : Compound pressure	
Process connection type	A : NPT	B
	B : PT	
	C : PF	
	X : Others available on request	
Process connection size	1 : 3/4"	3
	2 : 1"	
	3 : 1-1/2"	
	X : others on request	
Measuring range	110 : -1~0	117
	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	
Unit	117 : 0~10	A
	129 : -1~35	
	118 : 0~15	
	119 : 0~20	
	120 : 0~25	
	121 : 0~35	
Unit	A : kgf/cm ² or mmHg+kgf/cm ²	A
	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
	1 : 4~20mA DC, 2-wire	
	2 : 1~5V DC, 3-wire(Optional)	
Option	1 : None	1
	x : Sealed diaphragm, Refer to data sheet No.0416	

Note 1) Other ranges are available on request.
2) Please mark "abs." for absolute pressure.

Specifications subject to change without notice.



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