KP610 SERIES

Features

- Differential pressure sensor
- Analog output : 1~5V or 4~20mA
- Pressure range : 0~2 kPa or 0~5 kPa
- Simple installation, applicable to Ø6 air tubing
- IP40 enclosure

■ SPECIFICATIONS

MODEL	KP611	KP612
5 kPa 2 kPa 0		
Rated differential pressure range	0 ~ 5 kPa	0 ~ 2 kPa

■ FEATURES HIGHLIGHT

1 Simple installation

Plug-in port for air tubing

Plug connect with controller

2 Analog output

1 Analog output
Output range 1 to 5V or 4 to 20mA, proportional to the pressure range

RoHS

■ SPECIFICATIONS

MODEL		KP611	KP612
Rated differential pressure range		0 ~ 5 kPa	0 ~ 2 kPa
Operating pressure range		-50 ~ 50 kPa (*1)	
Withstand pressure		65 kPa	
Fluid		Filtered air, Non-corrosive／Non-flammable gas	
Power supply voltage		12 to 24V DC ±10%, Ripple (P-P) 10% or less	
Current consumption		≤ 15mA(With no load)	
Analog output (Voltage Output)		Output Voltage: 1 to 5V ±1% F.S. (within rated pressure range) Linearity: ±0.5% F.S. Output impedance: about 1kΩ	
Analog output (Current Output)		Output Current: 4 to 20mA ±1% F.S.(within rated pressure range) Linearity: ±0.5% F.S. Max.Load Impedance: 250Ω at power supply of 12V 600Ω at power supply of 24V	
Environment	Enclosure	IP 40	
	Ambient temp. range	Operation: 0 ~ 50°C, Storage:-20 ~ 70°C (No condensation or freezing)	
	Ambient humidity range	Operation/Storage: 35 ~ 85% RH (No condensation)	
	Withstand voltage	1000V AC in 1-min (between case and lead wire)	
	Insulation resistance	50MΩ (at 500V DC, between case and lead wire)	
	Vibration	Total amplitude 1.5mm or 10G,10Hz-150Hz-10Hz scan for 1 minute, two hours each direction of X, Y and Z	
	Shock	300m/s² (30G), 3 times each in direction of X, Y and Z	
Temperature characteristic		±3% F.S. of detected pressure (25°C) at temp. Range of 0~50°C	
Port size		Ø4.8 (Ø4.4 in the end) resin pipe (Applicable to Ø6 air tubing)	
Lead wire		Oil-resistance cable (0.15mm²)	
Weight		Approx. 75g (with 2-meter lead wire)	

【 NOTE 】 *1 : To detect differential pressure from 0~2 kPa or 0~5 kPa within the range of -50~50 kPa

■ OUTPUT CIRCUIT WIRING DIAGRAMS

KP61□-10-R6
Analog Output(1~5V)

KP61□-11-R6
Analog Output(4~20mA)

KP610 SERIES

■ ORDERING INFORMATION

K P 6 1 1 - 1 0 - R 6

Pressure Range	*Output Specifications*	*Optional Parts*
1 : 0~5 kPa	10 : Analog output (1~5V)	BT-14 : Mounting bracket
2 : 0~2 kPa	11 : Analog output (4~20mA)	

■ DIMENSIONS

■ OPTIONAL PARTS DIMENSIONS

Mounting Bracket

Unit:mm

■ APPLICATION

1. Liquid level detection
   To detect the liquid level by sensing the change of line pressure.

2. Air Flow detection

3. Filter air monitering
   To monitor the clogging of filter by detecting the differential pressure.