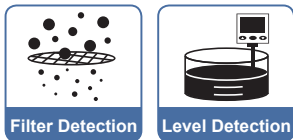


Features

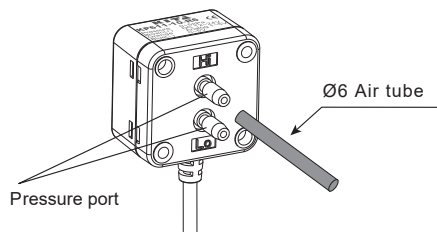
- Differential pressure sensor
- Analog output : 1 ~ 5 V or 4 ~ 20 mA
- Pressure range : 0 ~ 2 kPa or 0 ~ 5 kPa
- Simple installation, applicable to Ø6 air tubing
- IP40 enclosure



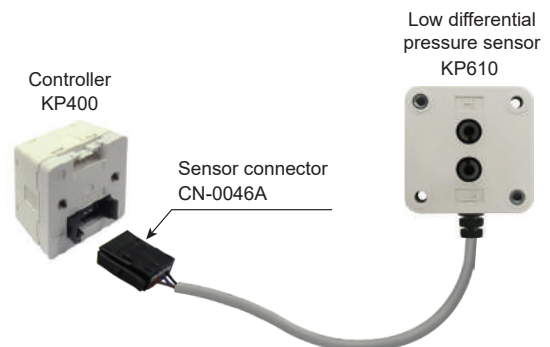
Features Highlight

1 Simple Installation

- Plug-in port for air tube



- Plug connect with controller

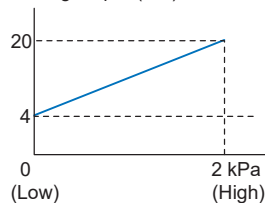


2 Analog Output

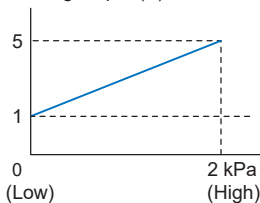
- 1 Analog output

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

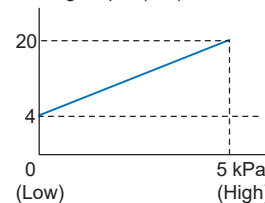
Analog output (mA)



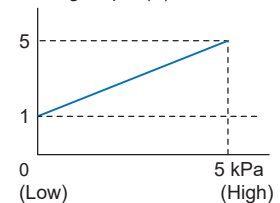
Analog output (V)



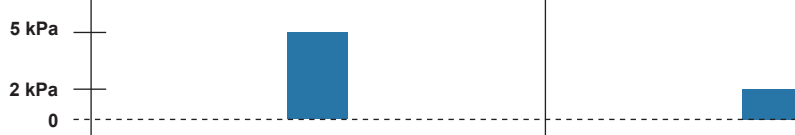
Analog output (mA)



Analog output (V)



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 24 V DC $\pm 10\%$, Ripple (P-P) 10 % or less	
Current Consumption		≤ 15 mA (With no load)	
Analog Output (Voltage Output)		Output Voltage : 1 to 5 V $\pm 1\%$ F.S. (within rated pressure range) Linearity : $\pm 0.5\%$ F.S. Output impedance : about 1 k Ω	
Analog Output (Current Output)		Output Current : 4 to 20 mA $\pm 1\%$ F.S. (within rated pressure range) Linearity : $\pm 0.5\%$ F.S. Max.Load impedance : 250 Ω at power supply of 12 V 600 Ω at power supply of 24 V	
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	1000 V AC in 1-min (between case and lead wire)	
	Insulation Resistance	50 M Ω (at 500 V DC, between case and lead wire)	
	Vibration	Total amplitude 1.5 mm or 10 G, 10 Hz - 150 Hz - 10 Hz scan for 1 minute, two hours each direction of X, Y and Z	
	Shock	300 m/s ² (30 G), 3 times each in direction of X, Y and Z	
Temperature Characteristic		$\pm 3\%$ F.S. of detected pressure (25 °C) at temp. Range of 0 ~ 50 °C	
Port Size		4.8 ($\varnothing 4.4$ in the end) resin pipe (Applicable to $\varnothing 6$ air tube)	
Lead Wire		Oil-resistance cable (0.15 mm ²)	
Weight		Approx. 75 g (with 2-meter lead wire)	

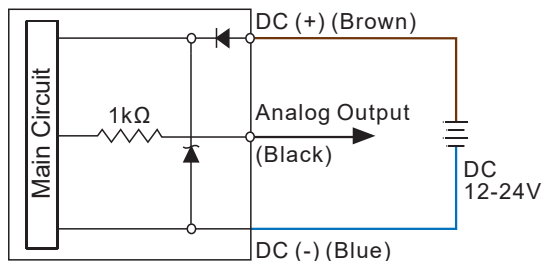
NOTE :

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

Circuit Wiring Diagrams

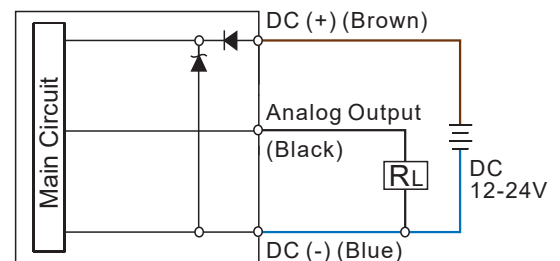
KP61 □ - 10 - R6

Analog Output (1 ~ 5 V)



KP61 □ - 11 - R6

Analog Output (4 ~ 20 mA)



KP610 SERIES

Differential Pressure Sensor

Ordering Information

K P 6 1 1 - 1 0 - R 6

Pressure Range

1 : 0 ~ 5 kPa
2 : 0 ~ 2 kPa

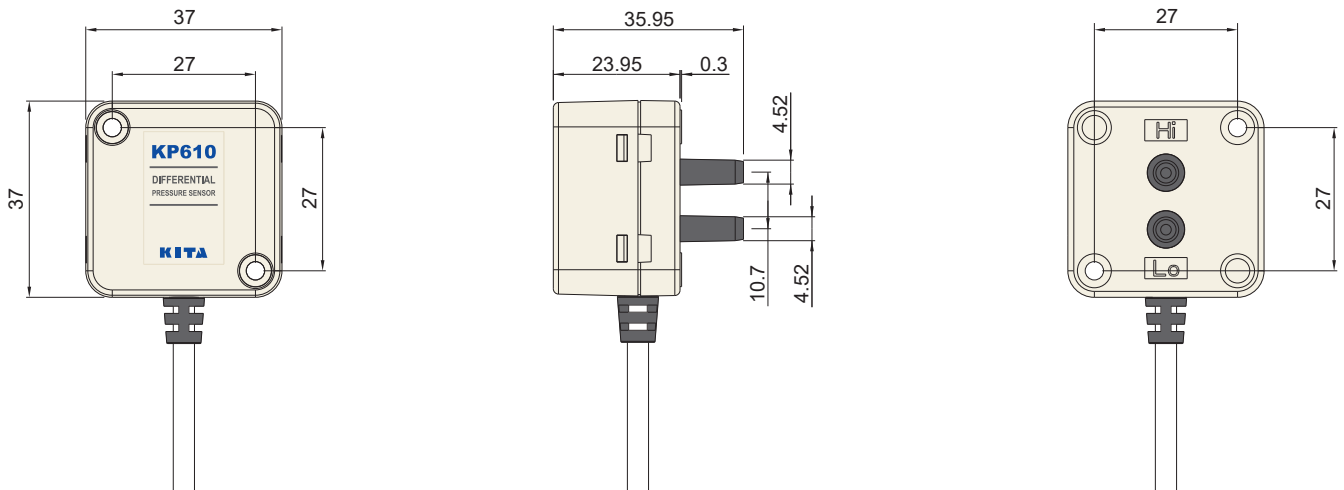
Output Specifications

10 : Analog output (1 ~ 5 V)
11 : Analog output (4 ~ 20 mA)

Optional Parts

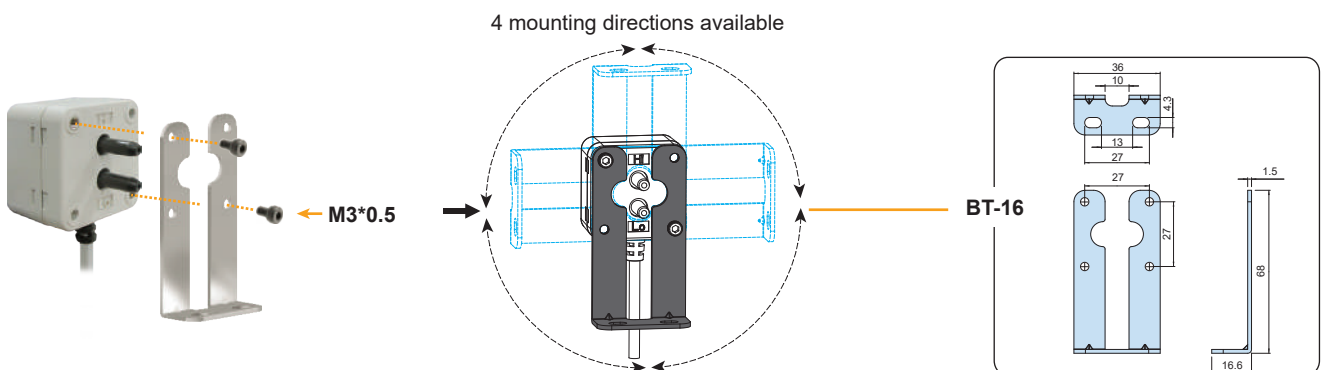
BT-16 : Mounting bracket

Dimensions



Optional Parts Dimensions

Mounting Bracket

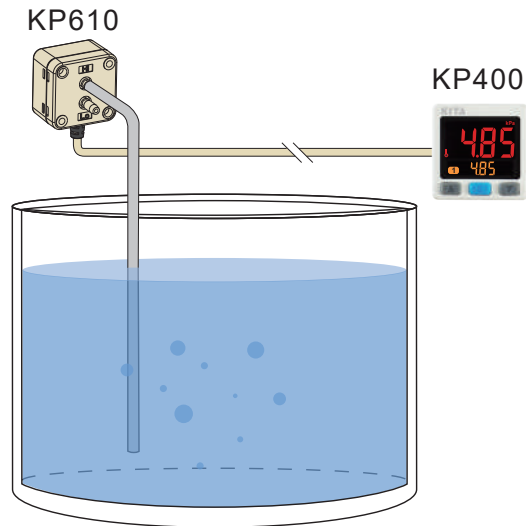


Unit : mm

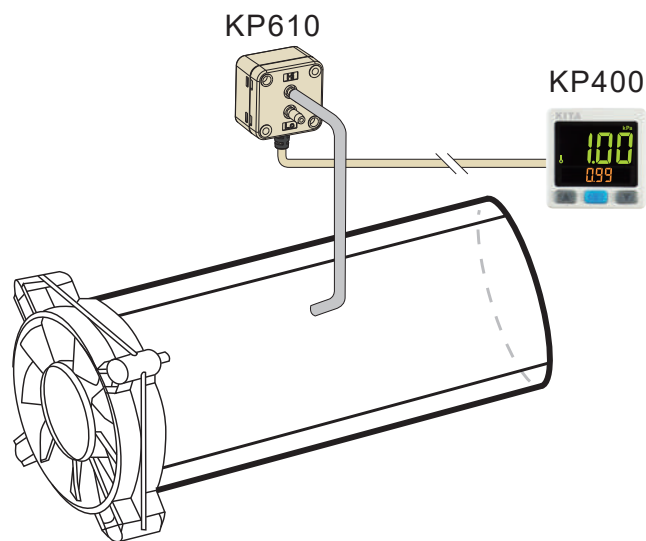
Application

1 Liquid Level Detection

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



2 Air Flow Detection



3 Filter Air Monitoring

To monitor the clogging of filter by detecting the differential pressure.

