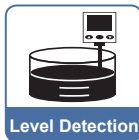


Features

- Digital LCD display, easy readout
- Analog output : 1 ~ 5 V or 4 ~ 20 mA
- IP40 enclosure
- Pressure range :
0 ~ 1 kPa, 0 ~ 2 kPa, 0 ~ 5 kPa
-1 ~ 1 kPa, -2 ~ 2 kPa, -5 ~ 5 kPa



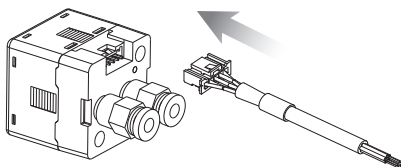
Filter Detection

Level Detection

Features Highlight

1 Quick Installation

- Save Installation Time
- Easy Removal



(Removable data cable)

2 Key Lock Function

- Key lock icon is shown on the display when the function is enabled.



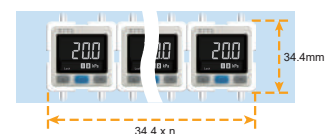
3 Save Installation Space

Panel opening for multiple pressure controller



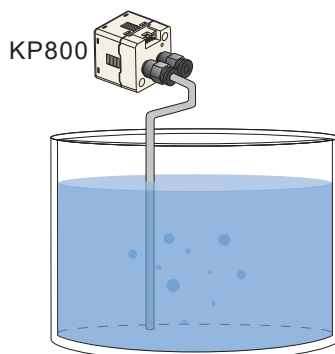
Calculation factor (A) = $(34.4 \times n) - 3.4$
n = number of controller

Actual dimension after installation

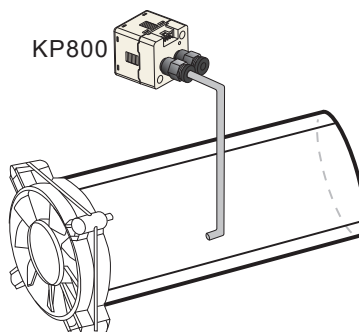


4 Liquid Level Detection

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

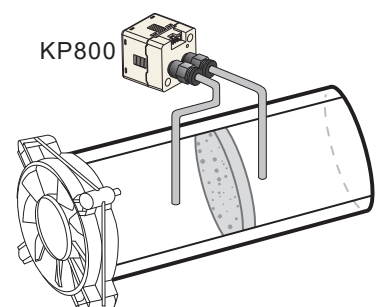


5 Air Flow Detection

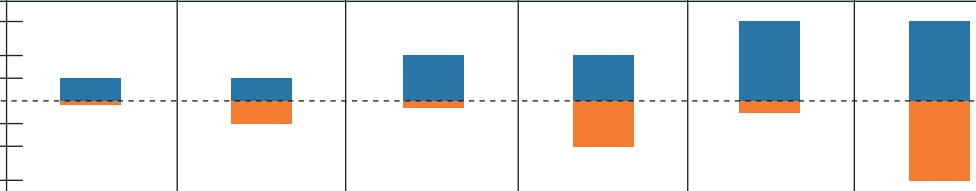


4 Filter Air Monitoring

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



Specifications

MODEL		KP801	KP811	KP802	KP812	KP805	KP815
5.00 kPa 2.00 kPa 1000 Pa 0 -1000 Pa -2.00 kPa -5.00 kPa 							
Rated Pressure Range		0 ~ 1000 Pa	-1000 ~ 1000 Pa	0.00 ~ 2.00 kPa	-2.00 ~ 2.00 kPa	0.0 ~ 5.00 kPa	-5.00 ~ 5.00 kPa
Setting Pressure Range		-100 ~ 1000 Pa	-1000 ~ 1000 Pa	-0.20 ~ 2.00 kPa	-2.00 ~ 2.00 kPa	-0.50 ~ 5.00 kPa	-5.00 ~ 5.00 kPa
Withstand Pressure		3 kPa		6 kPa		15 kPa	
Fluid		Filtered air, Non-corrosive / Non-flammable gas					
Set Pressure	Pa	1		-			
Resolution	kPa	-		0.01			
Power Supply Voltage		12 to 24 V DC ±10 %, Ripple (P-P) 10 % or less					
Current Consumption		≤ 40 mA (With no load)					
Switch Output		2NPN : open collector 2 outputs Max. Load Current : 125 mA Max. Supply Voltage : 30 V DC Residual Voltage : ≤ 1.5 V			2PNP : open collector 2 outputs Max. Load Current : 125 mA Max. Supply Voltage : 24 V DC Residual Voltage : ≤ 1.5 V		
Repeatability (Switch Output)		±0.5 % F.S. ±1 digit					
Hysteresis	Hysteresis mode	Adjustable					
	Window comparator mode						
Response Time		≤ 2.0 ms (chattering-proof function : 32 ms, 128 ms, 1024 ms selectable)					
Output Short Circuit Protection		Yes					
Display		3 ½ digital, 7 segment LCD display (White) (Sampling rate : 5 times / sec.)					
Indicator Accuracy		±2 % F.S. ±1 digit (ambient temperature : 25 ±3 °C)					
Switch on Indicator		White indicator 1 : OUT1 & White indicator 2 : OUT2					
Analog Output (Voltage Output) *1		Output Voltage : 1 to 5 V ±2.5 % F.S. (within rated pressure range) Linearity : ±1 % F.S. Output impedance : about 1 kΩ					
Analog output (Current Output) *2		Output Current : 4 to 20 mA ±2.5 % F.S. (within rated pressure range) Linearity : ±1 % F.S. Max.Load impedance : 250 Ω at power supply of 12 V / 600 Ω at power supply of 24 V Min.Load impedance : 50 Ω					
Environment	Enclosure	IP 40					
	Ambient Temp. Range	Operation : 0 ~ 50 °C, Storage : -10 ~ 60 °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 MΩ (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	100 m/s² (10 G), 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		M5					
Lead Wire		Oil-resistance cable (0.15 mm²)					
Weight		Approx. 75 g (with 2 meter lead wire)					

NOTE :

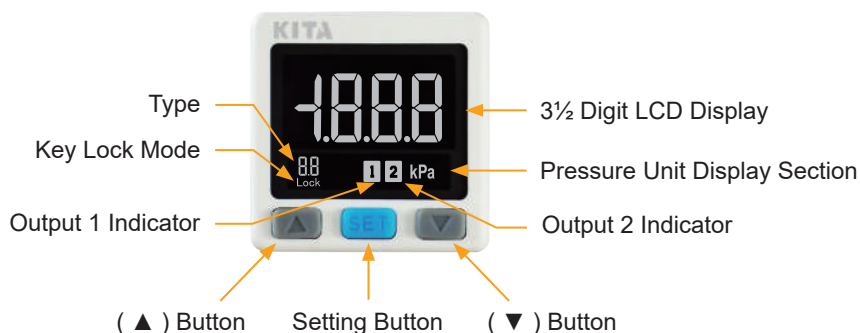
*1 : If analog voltage output is selected, the analog current output cannot be selected at the same time.

*2 : If analog current output is selected, the analog voltage output cannot be selected at the same time.

KP800 SERIES

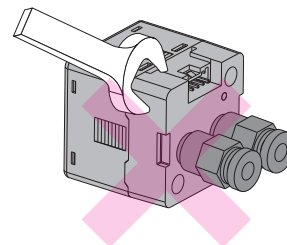
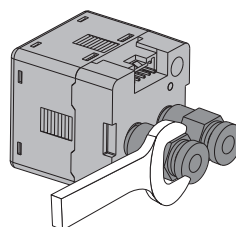
Differential Pressure Sensor

Panel Description



Installation Precautions

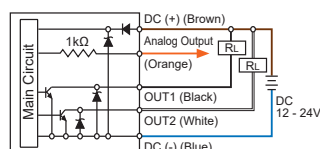
- When mounting, always use the wrench on the metallic area near the pressure port. Never apply a wrench to the plastic body, it will damage the sensor.
- Over tightening may cause damages to the port thread, mounting bracket and pressure sensor. Under tightening may result loosen or leakage.
- Apply pressure and power after installation and make necessary adjustments and inspect any possible signs of leakage to ensure proper installation.



Output Circuit Wiring Diagrams

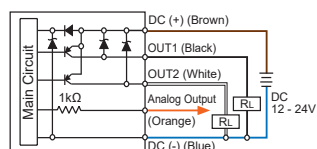
KP8□ - 010 - M5

2 NPN + Analog Output (1 ~ 5 V)



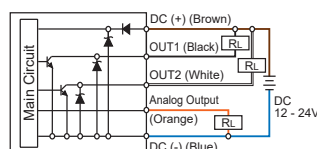
KP8□ - 030 - M5

2 PNP + Analog Output (1 ~ 5 V)



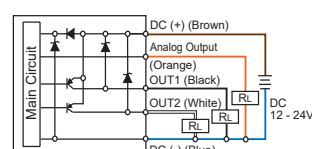
KP8□ - 011 - M5

2 NPN + Analog Output (4 ~ 20 mA)



KP8□ - 031 - M5

2 PNP + Analog Output (4 ~ 20 mA)



Ordering Information

K P 8 0 1 - 0 1 0 - M 5

Pressure Range

- | | |
|---------------------------|---------------------------|
| 01 : (-100 ~ 1000 Pa) | 11 : (-1000 ~ 1000 Pa) |
| 02 : (-0.20 ~ 2.00 kPa) | 12 : (-2.00 ~ 2.00 kPa) |
| 05 : (-0.50 ~ 5.00 kPa) | 15 : (-5.00 ~ 5.00 kPa) |

Output Specifications

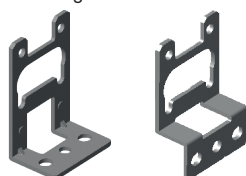
- 010 : 2 NPN output + Analog output (1 ~ 5 V)
 011 : 2 NPN output + Analog output (4 ~ 20 mA)
 030 : 2 PNP output + Analog output (1 ~ 5 V)
 031 : 2 PNP output + Analog output (4 ~ 20 mA)

Optional Parts

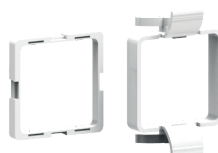
- BT-20 : Mounting bracket
 BT-21 : Mounting bracket
 PA-C : Panel adapter
 PA-D : Panel adapter + Front protective lid

Optional Parts

- Mounting Bracket : BT-20 / BT-21



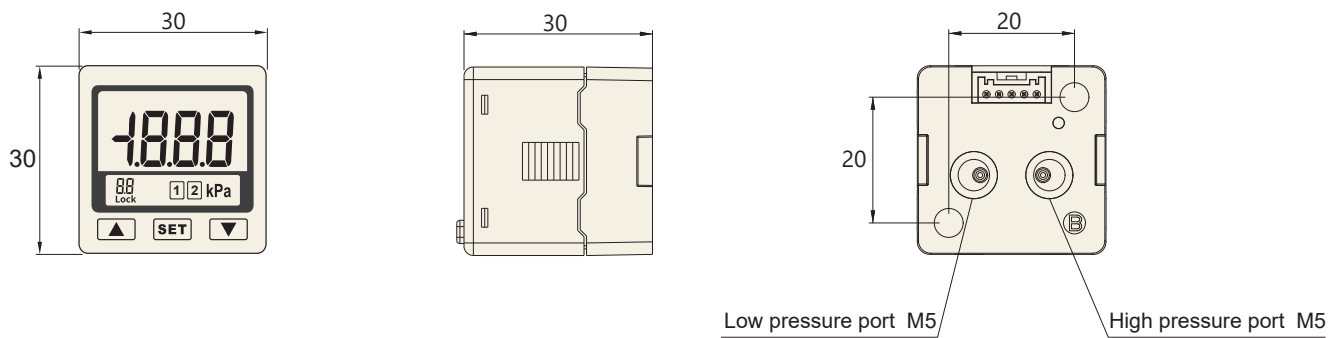
- Panel Adapter : PA-C



- Panel Adapter + Front Protective Lid : PA-D

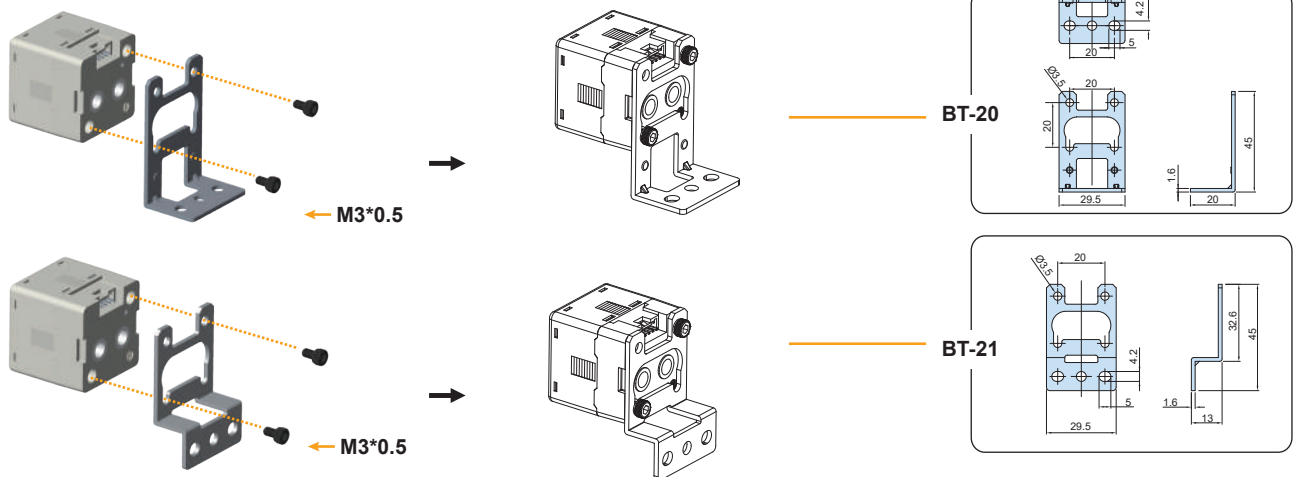


Dimensions



Optional Parts Dimensions

1 Mounting Bracket



2 Panel Mount Adapter + Front Protective Lid

