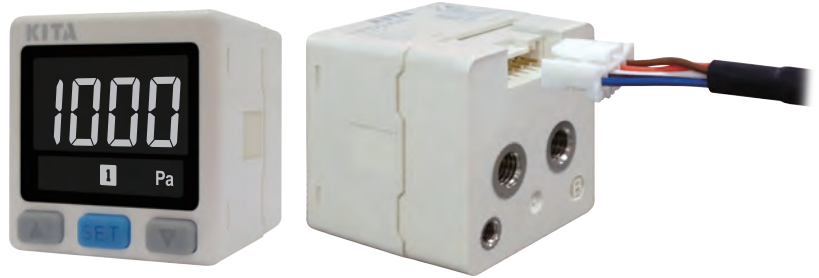


KP800 SERIES

Features

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



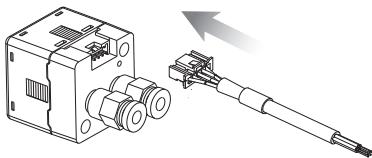
SPECIFICATIONS

MODEL	KP801	KP811	KP802	KP812	KP805	KP815
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

FEATURES HIGHLIGHT

1 Quick Installation

- Save Installation Time.
- Easy Removal.



(Removable data cable)

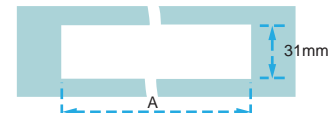
2 Key lock function

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



3 Save installation space

- Panel opening for multiple pressure controller



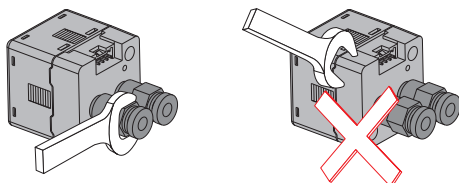
- Calculation factor (A) = (34.4 x n) - 3.4
- n = number of controller

- Actual dimension after installation

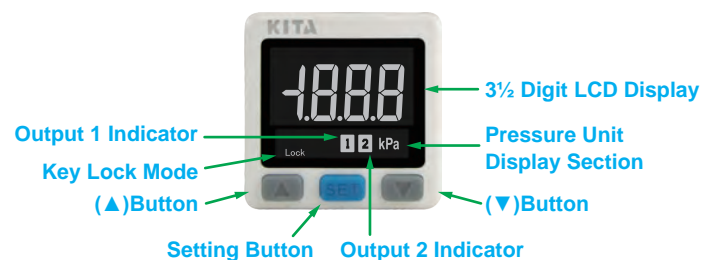


INSTALLATION PRECAUTIONS

- 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.



PANEL DESCRIPTION



■ SPECIFICATIONS

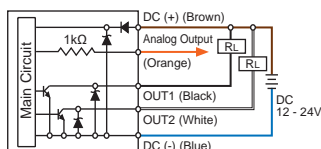
MODEL	KP801	KP811	KP802	KP812	KP805	KP815
Rated pressure range	0 ~ 1000 Pa	-1000 ~ 1000 Pa	0.00 ~ 2.00 kPa	-2.00 ~ 2.00 kPa	0.0 ~ 5.00 kPa	-5.00 ~ 5.00 kPa
Setting pressure range	-100 ~ 1000 Pa	-1000 ~ 1000 Pa	-0.20 ~ 2.00 kPa	-2.00 ~ 2.00 kPa	-0.50 ~ 5.00 kPa	-5.00 ~ 5.00 kPa
Withstand pressure	3 kPa		6 kPa		15 kPa	
Fluid	Filtered air, Non-corrosive / Non-flammable gas					
Set pressure resolution	Pa	1	-			
	kPa	-	0.01			
Power supply voltage	12 to 24V DC $\pm 10\%$, Ripple (P-P) 10% or less					
Current consumption	$\leq 40\text{mA}$ (With no load)					
Switch output	NPN: open collector 2 outputs Max. load current: 125mA Max. supply voltage: 30V DC Residual voltage: $\leq 1.5\text{V}$			PNP: open collector 2 outputs Max. load current: 125mA Max. supply voltage: 24V DC Residual voltage: $\leq 1.5\text{V}$		
Repeatability(Switch output)	$\pm 0.5\%$ F.S. ± 1 digit					
Hysteresis	Hysteresis mode	Adjustable				
	Window comparator mode					
Response time	$\leq 2.0\text{ms}$ (chattering-proof function: 32ms, 128ms, 1024ms selectable)					
Output short circuit protection	Yes					
7 segment LCD display	One color(White) (Sampling rate: 0.1 ~ 3 sec select)					
Indicator accuracy	$\pm 2\%$ F.S. ± 1 digit (ambient temperature: 25 $\pm 3^\circ\text{C}$)					
Switch ON Indicator	White (1&2 Indicator) OUT1 OUT2					
Analog output (Voltage Output) (*1)	Output Voltage: 1 to 5V $\pm 2.5\%$ F.S. (within rated pressure range) Linearity: $\pm 1\%$ F.S. Output impedance: about 1k Ω					
Analog output (Current Output) (*2)	Output Current: 4 to 20mA $\pm 2.5\%$ F.S.(within rated pressure range) Linearity: $\pm 1\%$ F.S. Max.Load impedance: 250 Ω at power supply of 12V 600 Ω at power supply of 24V Min.Load impedance: 50 Ω					
Environment	Enclosure	IP 40				
	Ambient temp. range	Operation: 0 ~ 50 $^\circ\text{C}$, Storage:-10 ~ 60 $^\circ\text{C}$ (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	50M Ω (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	100m/s 2 (10G), 3 times each in direction of X, Y and Z					
Temperature characteristic	$\pm 3\%$ F.S. of detected pressure (25 $^\circ\text{C}$) at temp. Range of 0~50 $^\circ\text{C}$					
Port size	M5					
Lead wire	Oil-resistance cable(0.15mm 2)					
Weight	Approx. 75g (with 2 meter lead wire)					

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

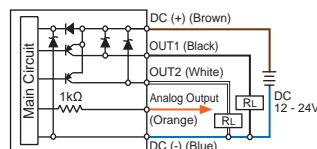
*2 : If analog current output is selected, the analog voltage output cannot be selected at the same time.

■ OUTPUT CIRCUIT WIRING DIAGRAMS

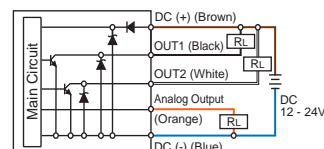
KP8□ - 010 - M5
2 NPN + Analog Output(1~5V)



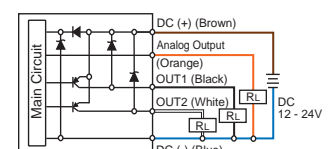
KP8□ - 030 - M5
2 PNP + Analog Output(1~5V)



KP8□ - 011 - M5
2 NPN + Analog Output(4~20mA)



KP8□ - 031 - M5
2 PNP + Analog Output(4~20mA)



KP800 SERIES

ORDERING INFORMATION

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

Pressure Range

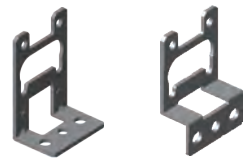
01 : (-100 ~ 1000 Pa) 11 : (-1000 ~ 1000 Pa)
 02 : (-0.20 ~ 2.00 kPa) 12 : (-2.00 ~ 2.00 kPa)
 05 : (-0.50 ~ 5.00 kPa) 15 : (-5.00 ~ 5.00 kPa)

Output Specifications

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

Optional Parts

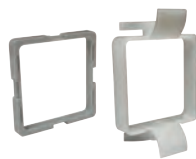
Mounting bracket



■ BT-20

■ BT-21

Panel adapter



■ PA-C

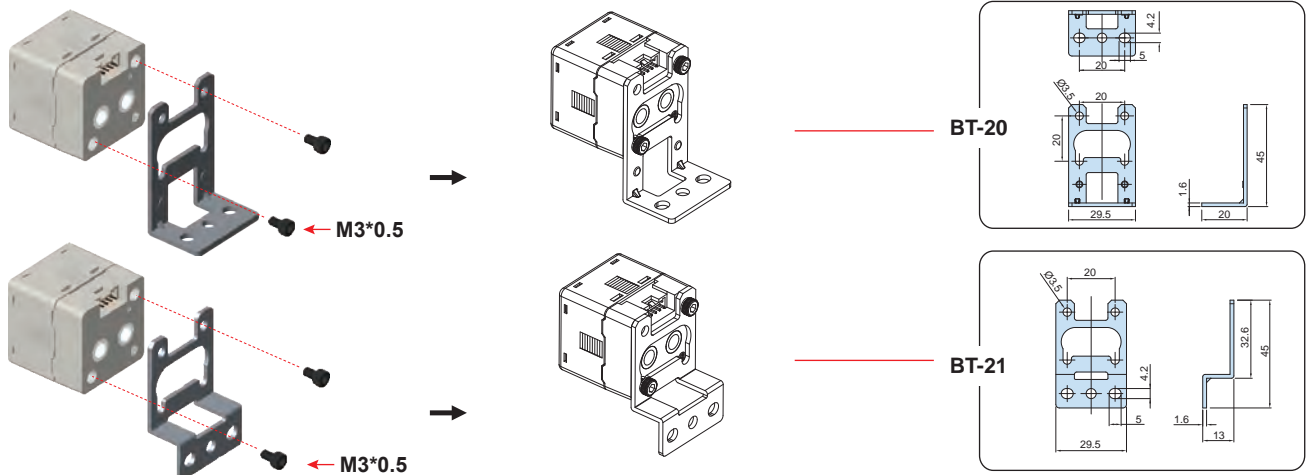
Panel adapter + Front protective lid



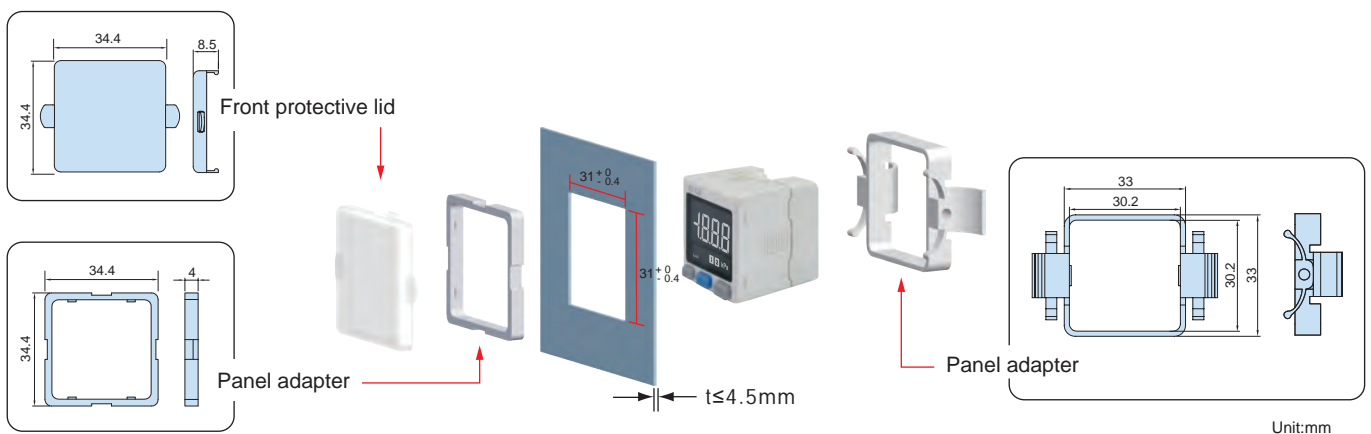
■ PA-D

OPTIONAL PARTS DIMENSIONS

1 Mounting Bracket

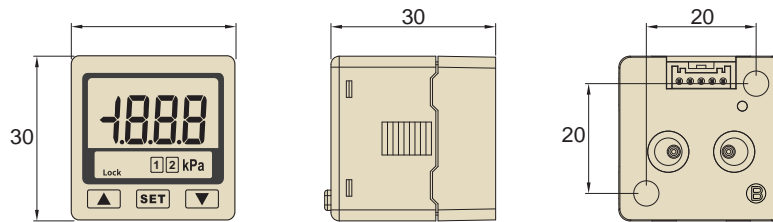


2 Panel Mount Adapter + Front Protective Lid



Unit:mm

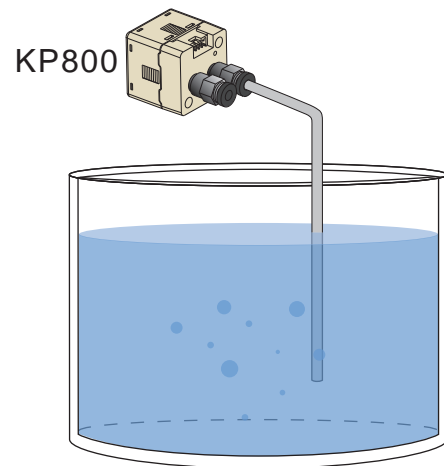
■ DIMENSIONS



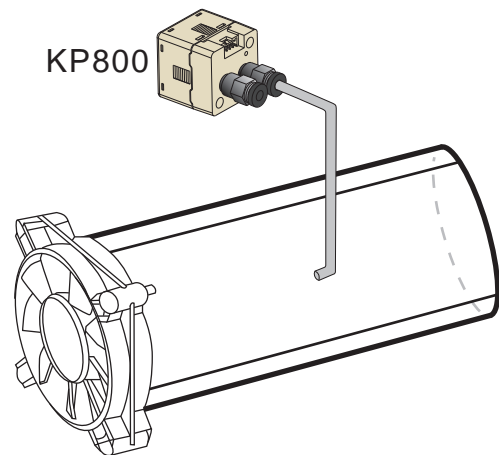
■ APPLICATION

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.

