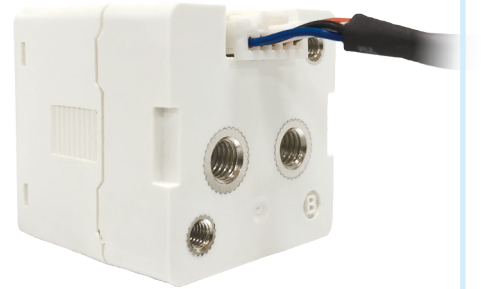


Features

- Digital LCD display, easy readout
- Pressure range :
-10 ~ 10 kPa, -1 ~ 1 kPa,
-2 ~ 2 kPa, -5 ~ 5 kPa
- RS485 Modbus RTU
- Remote control /
Real-time monitoring

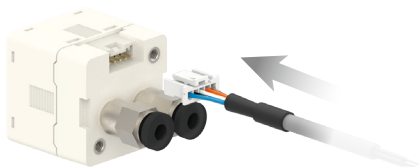
RS485 MODBUS CONTROL



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.



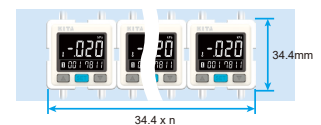
3 Save Installation Space

Panel opening for multiple pressure controller

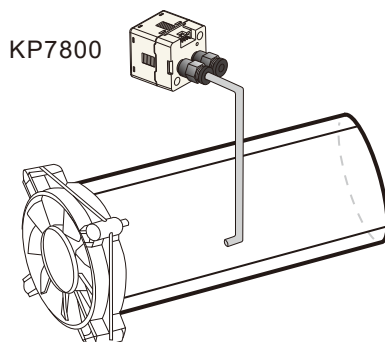


Calculation factor (A) = (34.4 x n) - 3.4
n = number of controller

Actual dimension after installation

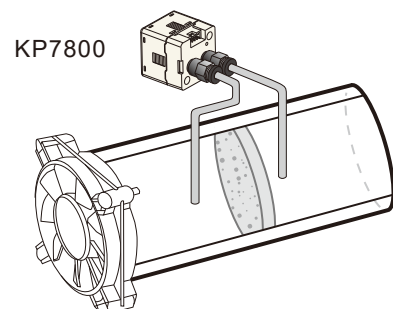


4 Air Flow Detection

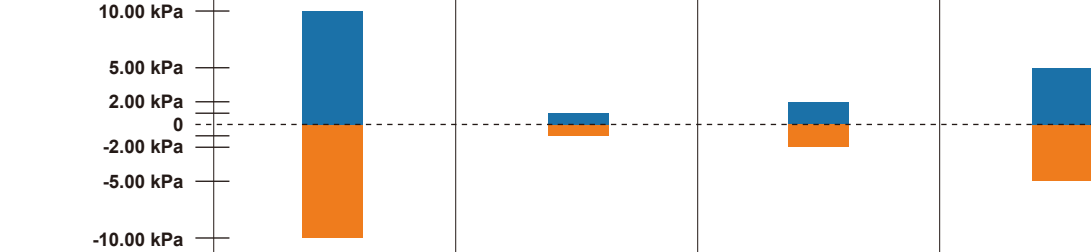


5 Filter Air Monitoring

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



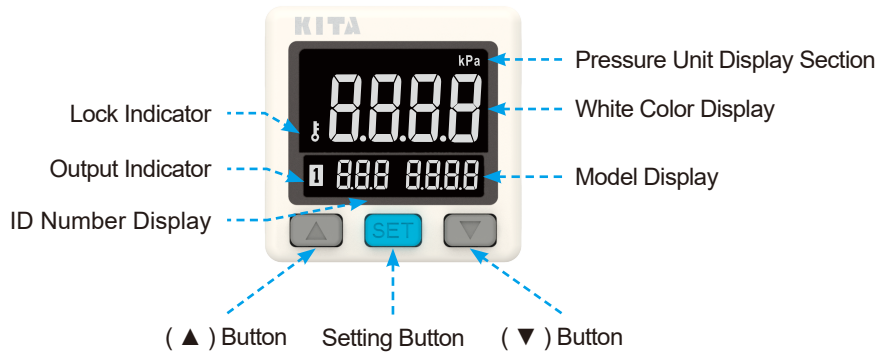
Specifications

MODEL		KP7810	KP7811	KP7812	KP7815
					
Rated Pressure Range		-10.00 ~ 10.00 kPa	-1.000 ~ 1.000 kPa	-2.00 ~ 2.00 kPa	-5.00 ~ 5.00 kPa
Set Pressure Range		-10.00 ~ 10.00 kPa	-1.000 ~ 1.000 kPa	-2.00 ~ 2.00 kPa	-5.00 ~ 5.00 kPa
Withstand Pressure		30 kPa	3 kPa	6 kPa	15 kPa
Fluid		Filtered air, Non-corrosive / Non-flammable gas			
Set Pressure Resolution	kPa	0.01	0.001	0.01	0.01
	mmAq ※1	1	0.1	1	1
Power Supply Voltage		12 ~ 24 V DC ± 10 %, Ripple (P-P) ≤ 10 %			
Current Consumption		≤ 40 mA (with no load)			
Switch Output		1 NPN : open collector 1 output Max. load current : 125 mA Max. supply voltage : 30 V DC Residual voltage : ≤ 1.5 V		1 PNP : open collector 1 output Max. load current : 125 mA Max. supply voltage : 24 V DC Residual voltage : ≤ 1.5 V	
Repeatability		± 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		4 digital, 7 segment LCD display (White) (Sampling rate : 0.1 ~ 3 sec select)			
Indicator Accuracy		± 2 % F.S. ± 1 digit (Ambient temperature : 25 ± 3 °C)			
Switch on Indicator		White Indicator 1 : OUT1			
Environment	Enclosure	IP40			
	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, 2 hours each direction of X, Y and Z			
	Shock	100 m/s ² (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)			
Communication Interface		RS485			
Port Size		M5 : M5 female thread			
Lead Wire		Ø4 Oil-resistance cable (PVC) - 26 AWG (0.15 mm ²) - 5 cores			
Weight (with 2 meter lead wire)		Approx. 75 g			

NOTE

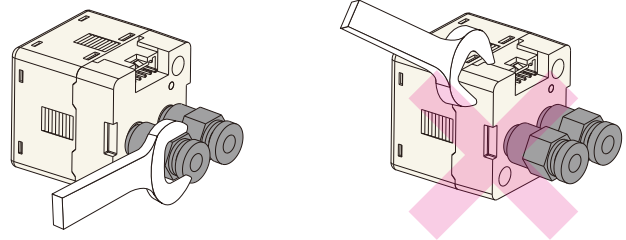
※1 : When the unit is mmAq, the pressure unit is not displayed.

Panel Description



Installation Precautions

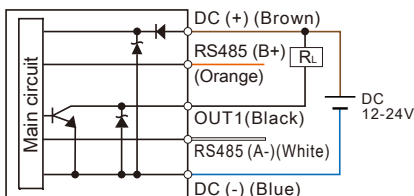
- Do not use the wrench on the plastic body while connecting the sensor connector or pressure port.
- Over tightening may cause damage to the port thread, mounting bracket and pressure sensor. Under tightening may result loosen or leakage.
- Apply air pressure and power after installation, make necessary adjustments and inspect any possible signs of leakage to ensure proper installation.
- Do not insert metal or sharp objects into the pressure port.



Output Circuit Wiring Diagrams

KP78□ - 02 - M5

1 NPN + RS485

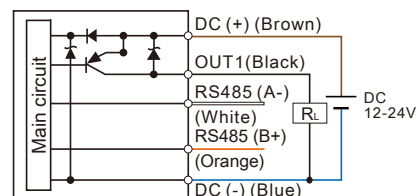


※ Wiring for RS485 MODBUS :

Please connect RS485 (B+) or (A-) before connecting power supply to avoid short circuit to damage to product.

KP78□ - 04 - M5

1 PNP + RS485



Ordering Information

K P 7 8 1 0 - 0 2 - M 5

Pressure Range

10 : -10.00 ~ 10.00 kPa 12 : -2.00 ~ 2.00 kPa
11 : -1.000 ~ 1.000 kPa 15 : -5.00 ~ 5.00 kPa

Output Specifications

02 : 1 NPN output + RS485
04 : 1 PNP output + RS485

Optional Parts

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

Optional Parts

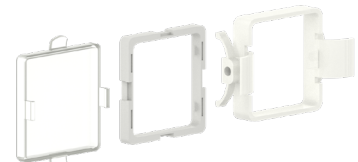
- Mounting Bracket : BT-20 / BT-21



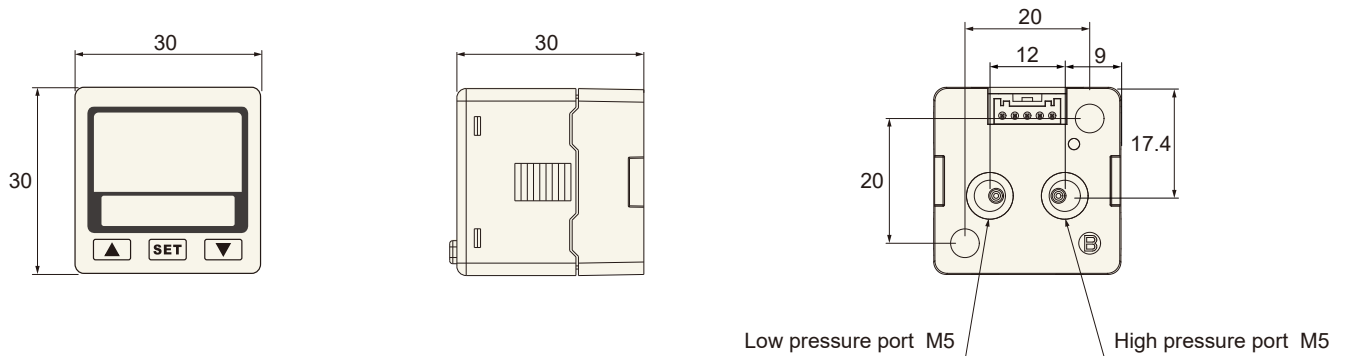
- Panel Adapter : PA-C



- Panel Adapter + Front Protective Lid : PA-D

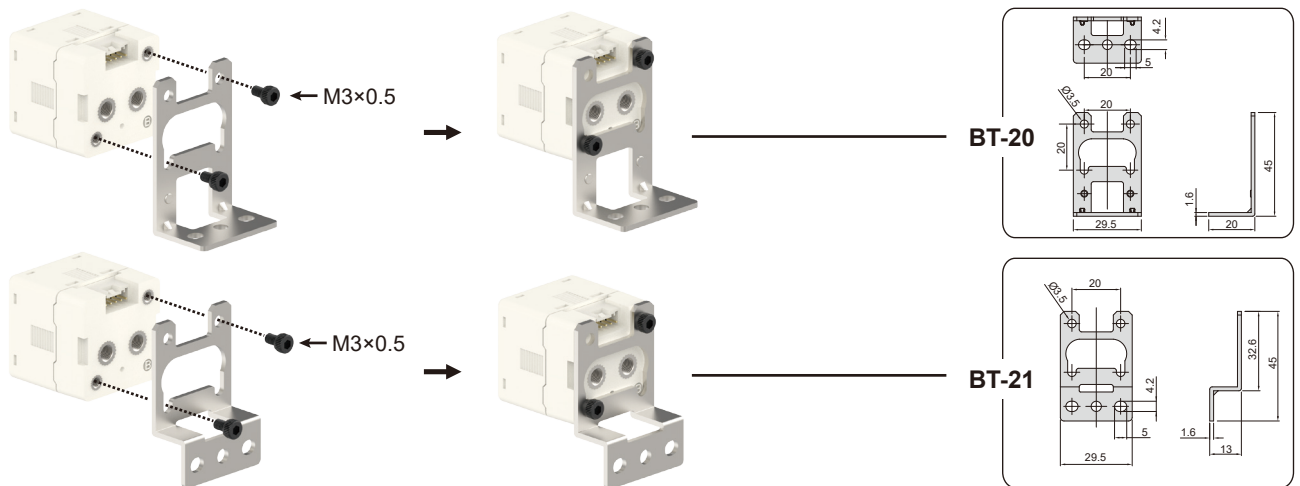


Dimensions

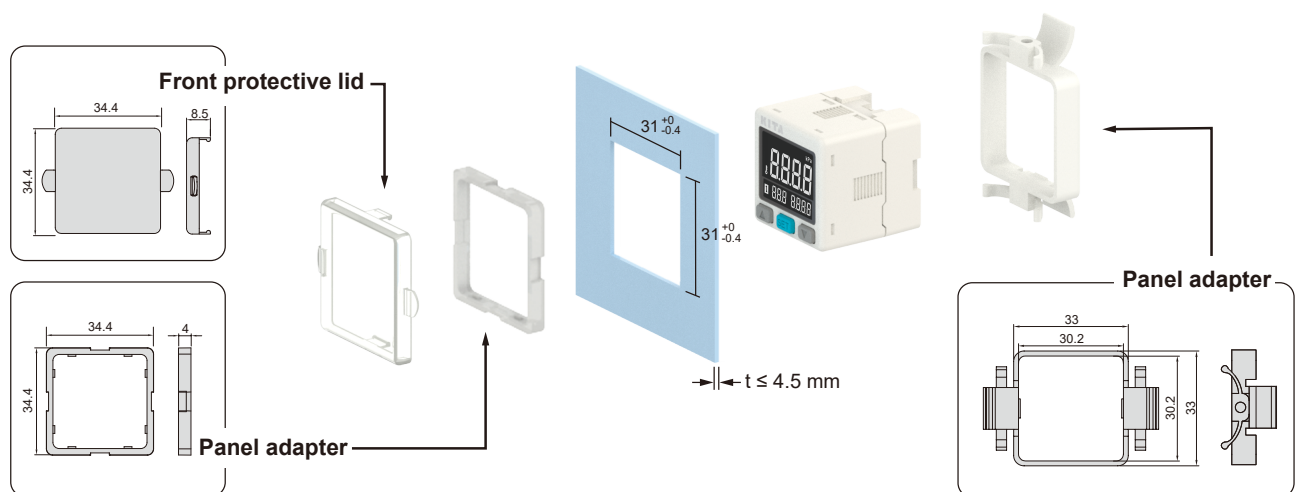


Optional Parts Dimensions

1 Mounting Bracket



2 Panel Mount Adapter + Front Protective Lid



Unit : mm