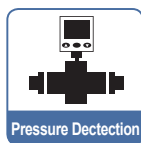


# KP61 SERIES Pressure Gauge

## Features

- Digital pressure gauge
- Setting pressure range :  
Vacuum ( 10 ~ -101 kPa )  
Positive ( -0.100 ~ 1.000 MPa )
- Programmable pressure unit :  
kPa 、 MPa 、 kgf / cm<sup>2</sup> 、 bar 、 psi
- IP65 enclosure



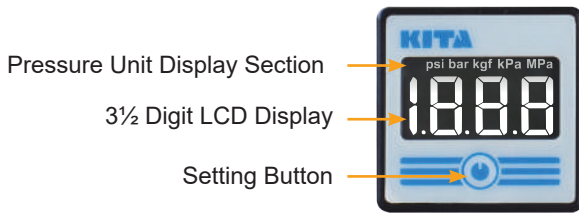
## Specifications

MODEL		KP61V (Vacuum)	KP61P (Positive)
Rated Pressure Range		0 ~ -101 kPa	0.000 ~ 1.000 MPa
Display Pressure Range		10 ~ -101 kPa	-0.100 ~ 1.000 MPa
Withstand Pressure		300 kPa	1.5 MPa
Applicable Fluid		Filtered air, incombustible and non-corrosive gases	
Pressure Resolution	kPa	1	-
	MPa	-	0.001
	kgf / cm <sup>2</sup>	0.01	0.01
	bar	0.01	0.01
	psi	0.1	0.1
Power Supply Voltage		12 to 28 V DC ±10 %, Ripple ( P-P ) 10 % or less	
Current Consumption		10 mA	
Sampling Rate		2 Hz ( 2 times / sec. )	
Repeatability		±1 % F.S. ±1 digit	±0.2 % F.S. ±1 digit
Display		3 ½ digital, 7 segment LCD display ( White )	
Indicator Accuracy		±2% F.S. ±1 digit ( ambient temperature : 25 ±3 °C )	
Environment	Enclosure	IP 65 *1	
	Ambient Temp. Range	Operation : 0 ~ 50 °C, storage : -10 ~ 60 °C ( No condensation or freezing )	
	Mbient 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 - 55 Hz - 10 Hz scan for 1 minute, two hours each direction of X, Y and Z	
	Shock	100 m/s <sup>2</sup> ( 10 G ), 3 times each in direction of X, Y and Z	
Temperature Characteristic		±2 % F.S. of detected pressure ( 25 °C ) at temp. range of 0 ~ 50 °C	
Port Size		F1 : R1/8", M5 ; F2 : NPT1/8", #10-32 UNF ; F3 : G1/8" ( BSPP ), M5	
Lead Wire		Oil-resistance cable ( 0.15 mm <sup>2</sup> )	
Weight		Approx. 60 g ( with 2 meter lead wire ), Approx. 40 g ( with M8 4Pin male connector )	

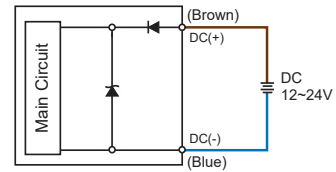
NOTE :

\*1 : Air tube must be installed to maintain IP65.

## Panel Description



## Circuit Wiring Diagram



\* Pressure display only, no switch output function.

## Ordering Information

**K P 6 1 P - F 1 -**

### Pressure Range

V : Vacuum ( 10 ~ -101 kPa )  
P : Positive ( -0.100 ~ 1.000 MPa )

### Cable Length / Connector

Blank : With 2 meter cable  
QD : With M8 4Pin male connector

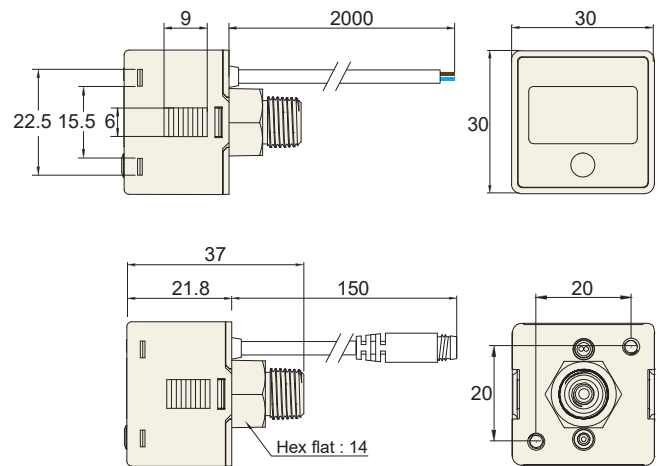
### Optional Parts

BT-5 : Mounting bracket  
BT-6 : Mounting bracket  
PA-C : Panel adapter  
PA-D : Panel adapter + Front protective lid

### Pressure Port

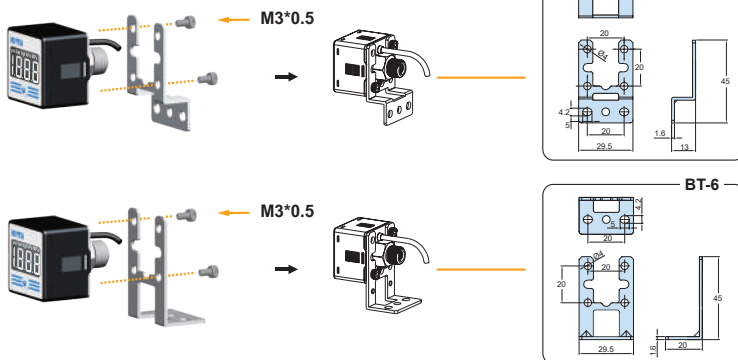
F1 : R1/8", M5  
F2 : NPT1/8", #10-32 UNF  
F3 : G1/8" ( BSPP ), M5

## Dimensions

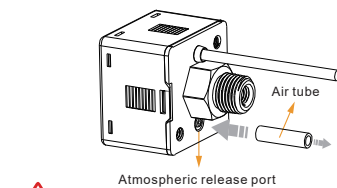


## Optional Parts Dimensions

### 1 Mounting Bracket



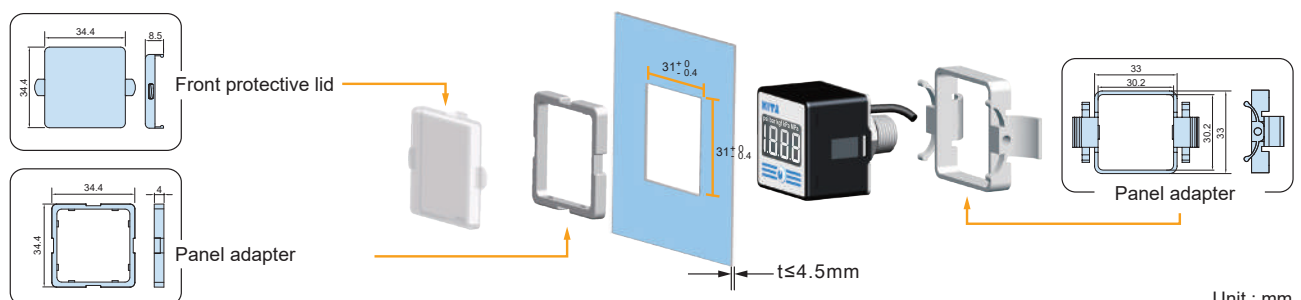
### 3 IP65 Protector



Caution :

- To maintain IP65, please insert an air tube ( O.D.: 4 mm ) into atmospheric release port and pipe the other end away from dust / spattering liquid environment.
- Use proper air tube dimension of O.D.: 4 mm, I.D.: 2.5 mm, and the length is depending on the user's environment.

### 2 Panel Mount Adapter + Front Protective Lid



Unit : mm