

KP47 SERIES

Features

- 3-color digital LCD display
- Main/Sub-Display, 4 digits 7 segment LCD display
- Programmable pressure unit :
kPa 、MPa 、kgf/cm² 、bar 、psi 、inHg 、mmHg
- Dual LCD display allows setting value to be displayed
- Key lock indicator
- Power-save mode
- Fine adjustment mode



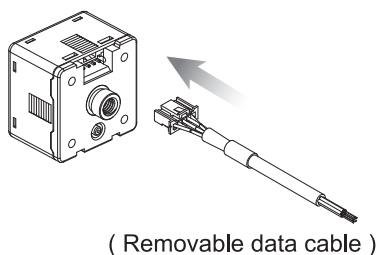
SPECIFICATIONS

TYPE	Compound	Vacuum	Positive
MODEL	KP47C	KP47V	KP47P
1.000 MPa			
100.0 kPa			
0			
-101.3 kPa			
Rated pressure range	-100.0 ~ 100.0 kPa	0.0 ~ -101.3 kPa	-0.100 ~ 1.000 MPa
Setting pressure range	-103.0 ~ 103.0 kPa	10.0 ~ -103.0 kPa	-0.103 ~ 1.030 MPa

FEATURES HIGHLIGHT

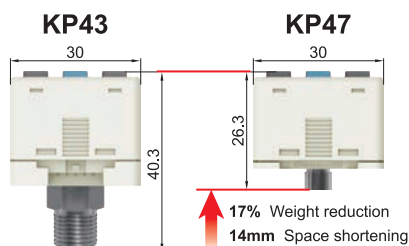
1 Quick Installation

- Save installation time
- Easy removal



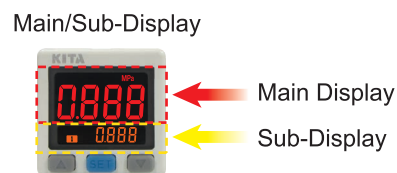
2 Compact design

- Compared with similar products, approx. 35% shorter



3 Setting Value Easy Indication

- User can easily observe the setting value from sub-display.



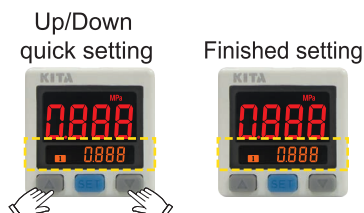
4 2-Color Main Display

- User programmable color mode, for different setting conditions.



5 OPS Quick Setting

- Sub-display allows changing the parameter directly, reduce setting step by 3/4.



6 Easy Unit Identification

- Conversion unit is on display and easy to read.



SPECIFICATIONS

MODEL		KP47C (Compound)	KP47V (Vacuum)	KP47P (Positive)
				
Rated pressure range		-100.0 ~ 100.0 kPa	0.0 ~ -101.3 kPa	-0.100 ~ 1.000 MPa
Setting pressure range		-103.0 ~ 103.0 kPa	10.0 ~ -103.0 kPa	-0.103 ~ 1.030 MPa
Withstand pressure		500 kPa		1.5 MPa
Fluid		Filtered air, Non-corrosive / Non-flammable gas		
Set pressure resolution	kPa	0.1		-
	MPa	-		0.001
	kgf/cm²	0.001		0.01
	bar	0.001		0.01
	psi	0.01		0.1
	inHg	0.1		-
	mmHg	1		-
Power supply voltage		12 to 24V DC ±10%, Ripple (P-P) 10% or less		
Current consumption		≤ 40mA (With no load)		
Switch output		NPN: open collector 1 outputs Max. load current: 80mA Max. supply voltage: 30V DC Residual voltage: ≤ 1V	PNP: open collector 1 outputs Max. load current: 80mA Max. supply voltage: 24V DC Residual voltage: ≤ 1V	
Repeatability(Switch output)		±0.3% F.S. ±1 digit		
Hysteresis	One point set mode	Adjustable(*1)		
	Hysteresis mode			
	Window comparator mode			
Response time		≤ 2.5ms (chattering-proof function: 25ms, 100ms, 250ms, 500ms, 1000ms and 1500ms selectable)		
Output short circuit protection		Yes		
7 segment LCD display		Two color(Red/Green) main & unit display, Orange sub-display(Sampling rate : 0.2 , 0.5 , 1 seconds/time selectable)		
Indicator accuracy		±1% F.S. ±1 digit (ambient temperature: 25 ±3°C)		
Switch ON Indicator		Orange (1 Indicator) OUT1		
Analog output (Voltage Output)		Output Voltage: 1 to 5V ±2.5% F.S. (within rated pressure range) Linearity: ±1% F.S. Output impedance: about 1kΩ		Output Voltage: 0.6 to 5V ±2.5% F.S. (within rated pressure range) Linearity: ±1% F.S. Output impedance: about 1kΩ
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	1000V AC in 1-min (between case and lead wire)		
	Insulation resistance	50MΩ (at 500V DC, between case and lead wire)		
	Vibration	Total amplitude 1.5mm or 10G,10Hz-55Hz-10Hz scan for 1 minute, two hours each direction of X, Y and Z		
	Shock	100m/s² (10G), 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		M5 female thread		
Lead wire		Oil-resistance cable(0.15mm²)		
Weight		Approx. 67g (with 2 meter lead wire)		

[NOTE] *1 : Hysteresis value is adjustable within 1 ~ 8 digits for one point set mode and window comparator mode.

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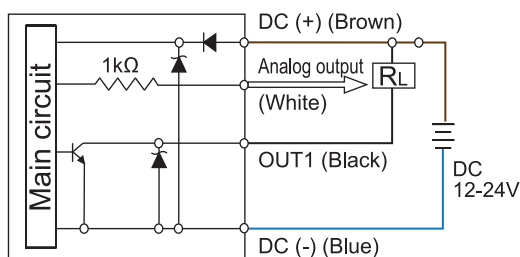
■ PANEL DESCRIPTION



■ OUTPUT CIRCUIT WIRING DIAGRAMS

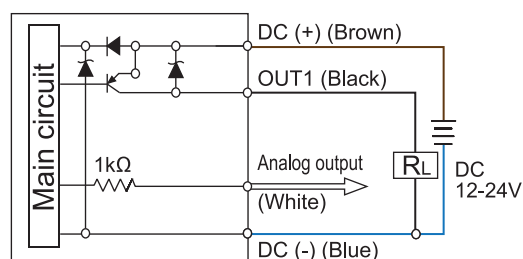
KP47 □ - 01 - □

1 NPN + Analog output (1~5V) (0.6~5V only positive)



KP47 □ - 03 - □

1 PNP + Analog output (1~5V) (0.6~5V only positive)



■ ORDERING INFORMATION

K P 4 7 C - 0 1 - M 5

Pressure Range

C : Compound (-103.0 ~ 103.0 kPa)
V : Vacuum (10.0 ~ -103.0 kPa)
P : Positive (-0.103 ~ 1.030 MPa)

Output Specifications

01 : 1 NPN Output & Analog Output(1~5V)
03 : 1 PNP Output & Analog Output(1~5V)

Optional Parts

BT-18 : Mounting bracket
BT-19 : Mounting bracket
PA-C : Panel adapter
PA-D : Panel adapter + Front protective lid

Optional Parts

Mounting bracket



■ BT-18



■ BT-19

Panel adapter



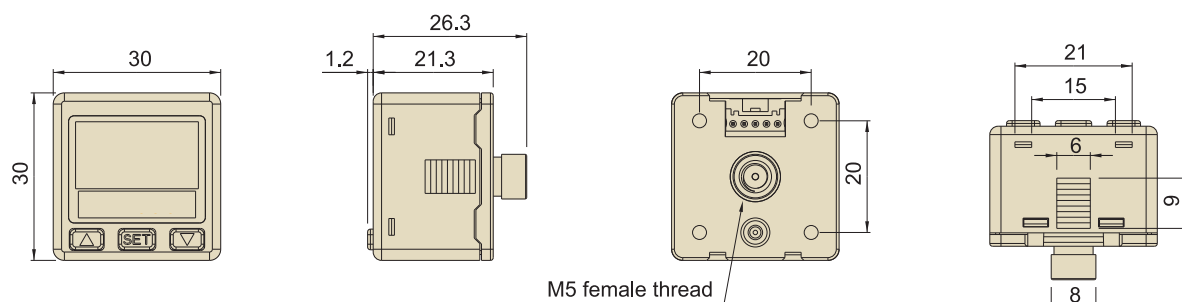
■ PA-C

Panel adapter + Front protective lid



■ PA-D

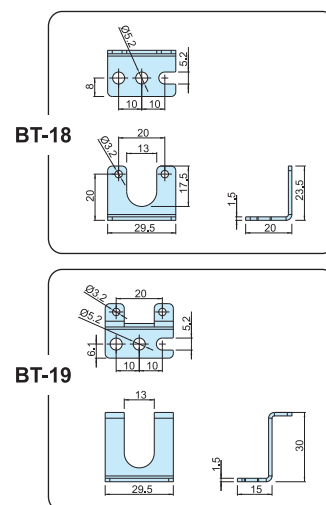
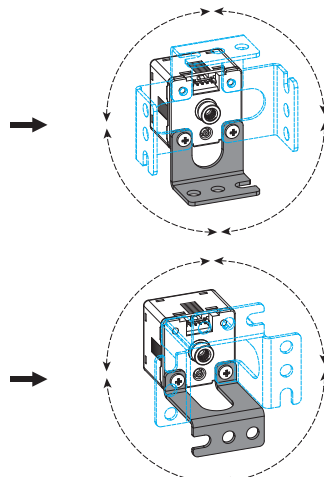
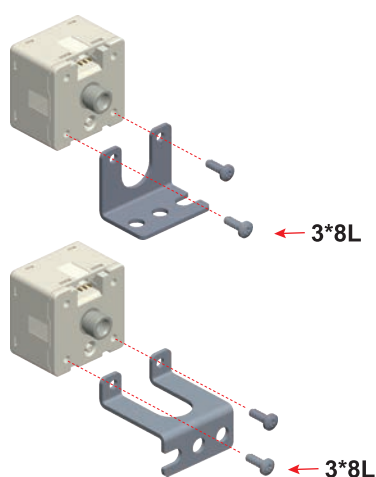
DIMENSIONS



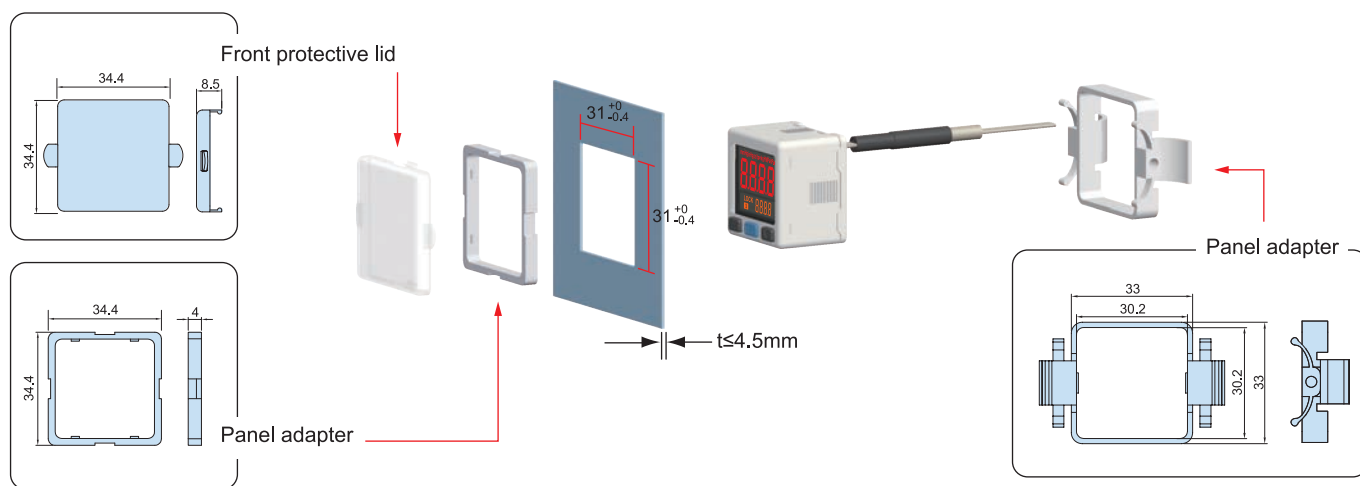
OPTIONAL PARTS DIMENSIONS

1 Mounting Bracket

4 mounting directions available



2 Panel Mount Adapter + Front Protective Lid



Unit:mm