

KP25 SERIES

Features

- Setting pressure range : Compound (-100.0~100.0 kPa)
Vacuum (10.0~-101.3 kPa)
Positive (-0.100~1.000 MPa)
- 2 outputs & analog output (1~5V)
- Hysteresis adjustable
- Programmable pressure unit :
kPa、MPa、kgf/cm²、bar、psi、inHg、mmHg、mmH₂O
- IP65 enclosure

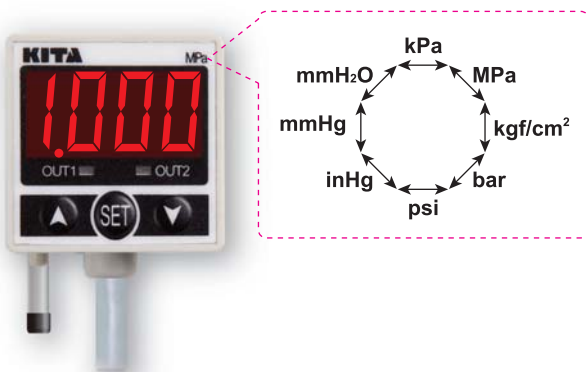


SPECIFICATIONS

TYPE	Compound	Vacuum	Positive
MODEL	KP25C	KP25V	KP25P
Rated pressure range	-100.0 ~ 100.0 kPa	0.0 ~ -101.3 kPa	0.000 ~ 1.000 MPa
Setting pressure range	-100.0 ~ 100.0 kPa	10.0 ~ -101.3 kPa	-0.100 ~ 1.000 MPa

FEATURES HIGHLIGHT

1 Programmable pressure unit



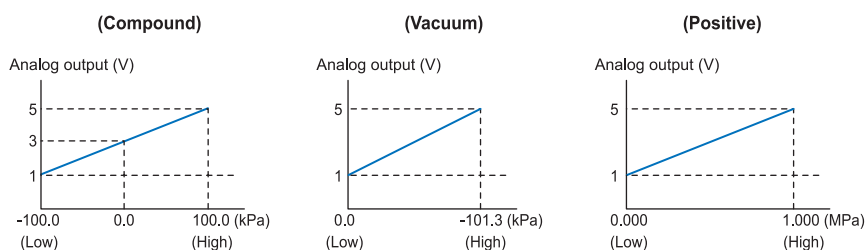
2 Dust-proof and splash-proof

Enclosure protection rating: IP 65



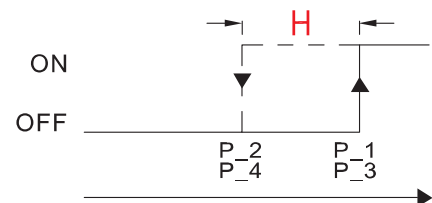
3 Analog output

2 outputs & analog output (1~5V)
Output range 1 to 5V, proportional to the pressure range




4 Hysteresis adjustable

Output hysteresis (H) is adjustable by user

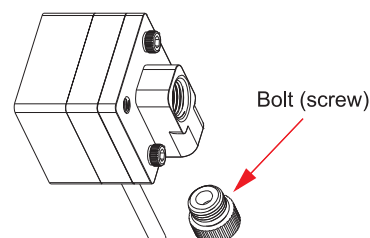


■ SPECIFICATIONS

MODEL		KP25C (Compound)	KP25V (Vacuum)	KP25P (Positive)
				
Rated pressure range		-100.0 ~ 100.0 kPa	0.0 ~ -101.3 kPa	0.000 ~ 1.000 MPa
Setting pressure range		-100.0 ~ 100.0 kPa	10.0 ~ -101.3 kPa	-0.100 ~ 1.000 MPa
Withstand pressure		300 kPa		1.5 MPa
Fluid		Filtered air, Non-corrosive/Non-flammable gas		
Set pressure resolution	kPa	0.1		-
	MPa	-		0.001
	kgf/cm ²	0.001		0.01
	bar	0.001		0.01
	psi	0.01		0.1
	inHg	0.1		-
	mmHg	1		-
	mmH ₂ O	0.1		-
Power supply voltage		12 to 24V DC ±10%, Ripple (P-P) 10% or less		
Current consumption		≤ 55mA		
Switch output		NPN : open collector 2 outputs Max. load current : 80mA Max. supply voltage : 30V DC Residual voltage : ≤ 1V	PNP : open collector 2 outputs Max. load current : 80mA Max. supply voltage : 24V DC Residual voltage : ≤ 1V	
Repeatability(Switch output)		±0.2% F.S. ±1 digit		
Hysteresis	Hysteresis mode	Adjustable		
	Window comparator mode	Fixed (3 digits)		
Response time		≤ 2.5ms (chattering-proof function: 24ms, 192ms and 768ms selectable)		
Output short circuit protection		Yes		
7 segment LED display		3 ½ digit LED display (Sampling rate: 5 times/1sec.)		
Indicator accuracy		±2% F.S. ±1 digit (Ambient temperature: 25 ±3°C)		
Indicator		OUT1 = Green, OUT2 = Red		
Analog output (Only type KP25□-01-□, KP25□-03-□)		Output voltage : 1 to 5V ±5% F.S. (within rated pressure range) Linearity : ±1% F.S.	Output voltage : 1 to 5V ±2.5% F.S. (within rated pressure range) Linearity : ±1% F.S.	
Environment	Enclosure	IP 65		
	Ambient temp. range	Operation : 0 ~ 50°C, storage : -20 ~ 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, 10Hz-55Hz-10Hz scan for 1 minute, two hours each direction of X, Y and Z		
Shock		980m/s ² (100G), 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:Rc1/8"; F2:NPT1/8"; F3:G1/8"(BSPP)		
Lead wire		Oil-resistance cable (0.15mm ²)		
Weight		Approx. 105g (with 2 meter lead wire), Approx. 71g (with M8 4Pin male connector)		

■ INSTALLATION

- This product has two inlet pressure ports, select the one most convenient for installation.
- Please plug the unused inlet port with supplied port plug. Use seal tape to prevent pressure leak.



KP25 SERIES

■ PANEL DESCRIPTION

Switch (OUT1)

(Green LED)

(▲) Button

Use the (▲) button to change setting mode and pre-set desired value.

Setting Button

Change setting mode and pre-set final desired value.



3 1/2 Digit LED Display

Pressure value display.

Switch (OUT2)

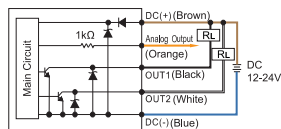
(Red LED)

(▼) Button

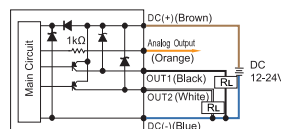
Use the (▼) button to change setting mode and pre-set desired value.

■ OUTPUT CIRCUIT WIRING DIAGRAMS

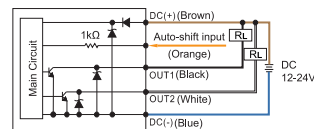
KP25□-01-□-□
NPN Output & Analog Output



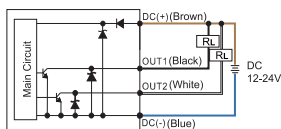
KP25□-03-□-□
PNP Output & Analog Output



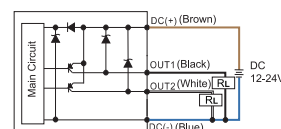
KP25□-05-□-□
NPN Output & Auto-shift input



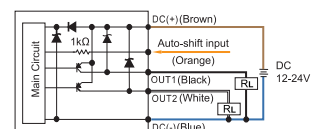
KP25□-02-□-□
NPN Output



KP25□-04-□-□
PNP Output



KP25□-07-□-□
PNP Output & Auto-shift input



■ ORDERING INFORMATION

K P 2 5 C - 0 1 - F 1 - □

Pressure Range

C : Compund (-100.0~100.0 kPa)
V : Vacuum (10.0~-101.3 kPa)
P : Positive (-0.100~1.000 MPa)

Pressure Port

F1 : Rc1/8"
F2 : NPT1/8"
F3 : G1/8"(BSPP)

Output Specification

01 : 2 NPN output & Analog output(1~5V)
02 : 2 NPN output
03 : 2 PNP output & Analog output(1~5V)
04 : 2 PNP output
05 : 2 NPN output & Auto-shift input
07 : 2 PNP output & Auto-shift input

Cable Length / Connector

Blank : With 2 meter cable
QD : With M8 4Pin male connector
*(Only type KP25□-02-□, KP25□-04-□)

Optional Parts

M84R-W0085-2M : With M8 4Pin female connector
BT-1 : Mounting bracket
BT-2 : Mounting bracket
PA-A : Panel adapter
PA-B : Panel adapter+Front protective lid

Optional Parts

M8 4Pin female connector



■ M84R-W0085-2M

Mounting bracket



■ BT-1 ■ BT-2

Panel adapter



■ PA-A

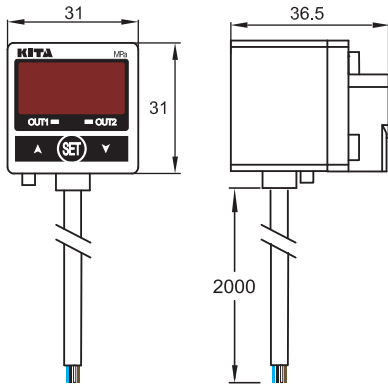
Panel adapter+Front protective lid



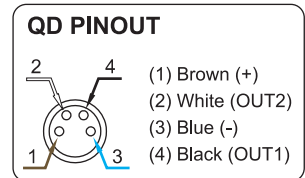
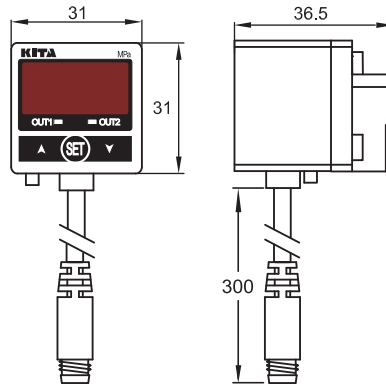
■ PA-B

DIMENSIONS

KP25 □ - □ - □

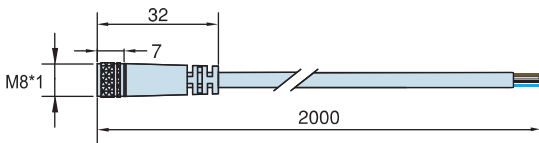


KP25 □ - □ - □ - QD

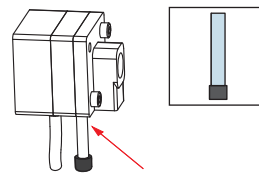


OPTIONAL PARTS DIMENSIONS

1 M8 Female Connector model : M84R-W0085-2M



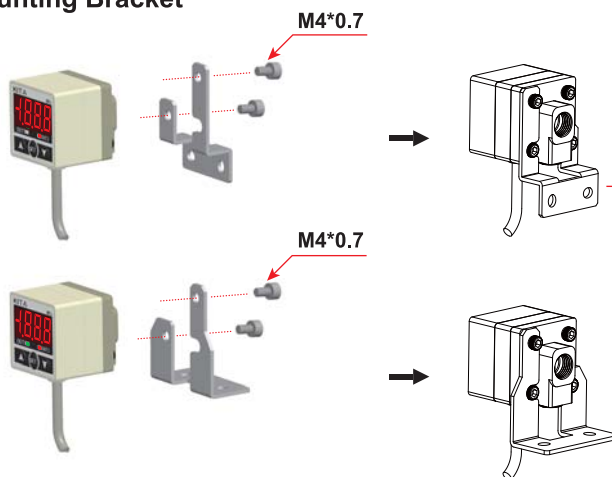
2 IP65 Protector



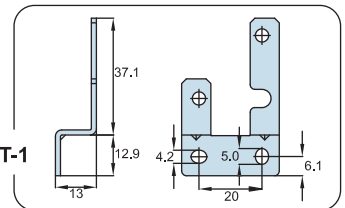
Caution:
This device must be installed to maintain IP 65(Dust and splash proof) enclosure rating.

Dustproof protector

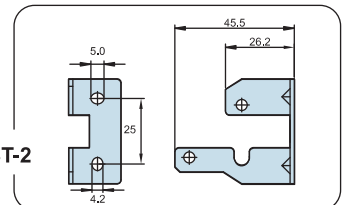
3 Mounting Bracket



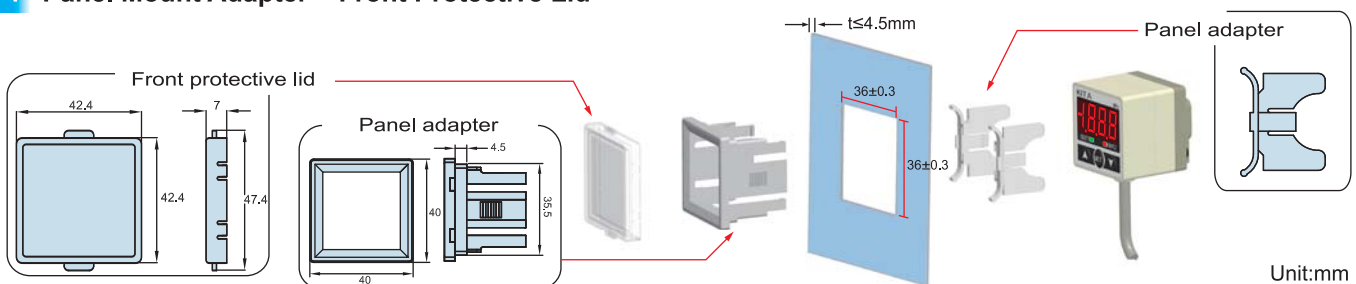
Mounting bracket **BT-1**



Mounting bracket **BT-2**



4 Panel Mount Adapter + Front Protective Lid



Unit:mm