

# KP45S SERIES

## Features

- 2-color digital LCD display
- Copy function
- Programmable pressure unit : kPa 、 kgf/cm<sup>2</sup> 、 bar 、 psi 、 inHg
- IP65 enclosure



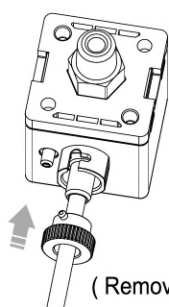
## SPECIFICATIONS

TYPE	Compound
MODEL	KP45S
10.10 kPa	
0	
-10.10 kPa	
Rated pressure range	-10.00 ~ 10.00 kPa
Setting pressure range	-10.10 ~ 10.10 kPa

## FEATURES HIGHLIGHT

### 1 Quick Installation

- Save installation time
- Easy removal



( Removable data cable )

### 2 Copy Setting

- Avoid setting errors
- Reduce setting time

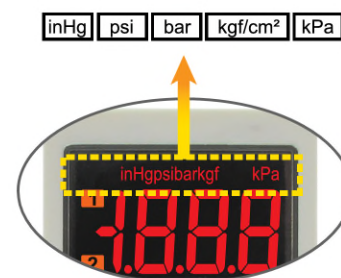


( Original Parameter )

( Copied )

### 3 Easy Unit Identification

- Conversion unit is on display and easy to read.



### 4 2-Color Display

- User programmable color mode, for different setting conditions.



	Soft	500	0.01	0.01
ON	Green	Red	Green	Red
OFF	Red	Green	Green	Red

### 5 IP65 Compliance

- Protected against water and dust splash from all directions.

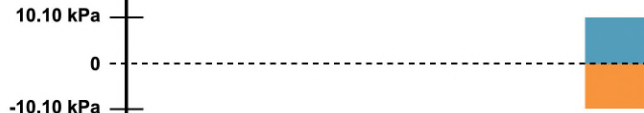


### 6 Environmental Protection Design

- RoHS Compliance / Without Harmful Substance



## ■ SPECIFICATIONS

MODEL		KP45S (Compound)
		
Rated pressure range		-10.00 ~ -10.00 kPa
Set pressure range		-10.10 ~ -10.10 kPa
Withstand pressure		20 kPa
Fluid		Filtered air, Non-corrosive / Non-flammable gas
Set pressure resolution	kPa	0.01
	MPa	-
	kgf/cm <sup>2</sup>	0.001
	bar	0.001
	psi	0.01
	inHg	0.1
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)		$\pm 0.2\%$ F.S. $\pm 1$ digit
Hysteresis	One point set mode	Adjustable( *1)
	Hysteresis mode	
	Window comparator mode	
Response time		$\leq 2.5\text{ms}$ (chattering-proof function: 25ms, 100ms, 250ms, 500ms, 1000ms and 1500ms selectable)
Output short circuit protection		Yes
7 segment LCD display		3½ digit, 7 segment (red/green)
Indicator accuracy		$\pm 2\%$ F.S. $\pm 1$ digit (ambient temperature: 25 $\pm 3^\circ\text{C}$ )
Switch ON Indicator		Orange (1&2 Indicator) OUT1 OUT2
Analog output (Voltage Output) (*2)		Output Voltage: 1 to 5V $\pm 2.5\%$ F.S. (within rated pressure range) Linearity: $\pm 1\%$ F.S. Output impedance: about 1k $\Omega$
Analog output (Current Output) (*3)		Output Current: 4 to 20mA $\pm 2.5\%$ F.S. (within rated pressure range) Linearity: $\pm 1\%$ F.S. Max.Load Impedance: 250 $\Omega$ at power supply of 12V 600 $\Omega$ at power supply of 24V Min.Load impedance: 50 $\Omega$
Environment	Enclosure	IP 65
	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	50M $\Omega$ (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/s <sup>2</sup> (10G), 3 times each in direction of X, Y and Z
Temperature characteristic		$\pm 2.5\%$ 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(0.15mm <sup>2</sup> )
Weight (with 2 meter lead wire)		Approx. 86g (with 2 meter lead wire)

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

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

\*3 : If analog current output is selected, the analog voltage output cannot be selected at the same time.