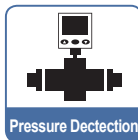


KP75 SERIES

IOT Pneumatic · Hydraulic High Pressure Sensor (Multi-Medium)

Features

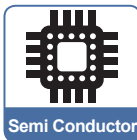
- Corrosive fluid or gas available (in the pipeline)
- Sensor parts & Fitting parts : Stainless steel 316L
- 2-color digital LCD display
- Remote control / Real-time monitoring
- RS-485 Modbus RTU / ASCII
- 3½ digit, 7 segment LCD display
- IP65 enclosure



Pressure Detection



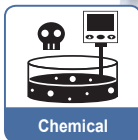
Exhaust Gas Treatment



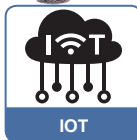
Semi Conductor



Hydraulic



Chemical

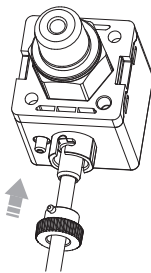


IOT

Features Highlight

1 Quick Installation

- Save installation time
- Easy removal



(Removable data cable)

2 Copy Setting

- Avoid setting errors
- Reduce setting time



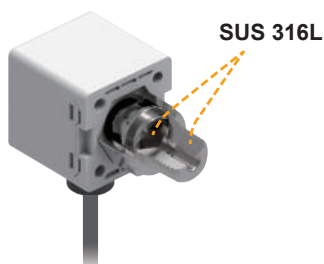
3 Easy Unit Identification

- Conversion unit is on display and easy to read



4 Applicable for Corrosive Fluid or Gas

- Sensor parts & Fitting parts are SUS 316L, applicable for corrosive fluid or gas equipment



5 2-Color Display

- User programmable color mode, for different setting conditions

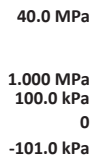


	50.0	50.0	50.0	50.0
ON	Green	Red	Green	Red
OFF	Red	Green	Green	Red

6 IP65 Compliance



Specifications

MODEL		KP75C (Compound)	KP75P (Positive)	KP75H02 (High)	KP75H07 (High)	KP75H10 (High)	KP75H25 (High)	KP75H40 (High)
								
Rated Pressure Range		-100.0 ~ 100.0 kPa	0.000 ~ 1.000 MPa	0.000 ~ 2.00 MPa	0.00 ~ 7.00 MPa	0.00 ~ 10.00 MPa	0.0 ~ 25.0 MPa	0.0 ~ 40.0 MPa
Set Pressure Range		-101.0 ~ 101.0 kPa	-0.100 ~ 1.000 MPa	-0.100 ~ 2.00 MPa	0.00 ~ 7.00 MPa	0.00 ~ 10.00 MPa	0.0 ~ 25.0 MPa	0.0 ~ 40.0 MPa
Withstand Pressure		300 kPa	3 MPa	3 MPa	14 MPa	20 MPa	50 MPa	80 MPa
Fluid		Fluids do not corrode stainless steel 316L			Fluids do not corrode stainless steel 316L, fluororubber (FKM)			
Sealed Liquid		Silicon oil						
Set Pressure Resolution	kPa	0.1	-	-	-	-	-	-
	MPa	-	0.001	0.001 (~ 1.999) 0.01 (2.00 ~)	0.01	0.01	0.1	0.1
	kgf / cm²	0.001	0.01	0.01 (~ 19.99) 0.1 (20.0 ~)	0.1	0.1	1	1
	bar	0.001	0.01	0.01 (~ 19.99) 0.1 (20.0 ~)	0.1	0.1	1	1
	psi	0.01	0.1	0.1 (~ 199.9) 1 (200 ~)	1	1	1 *1	1 *1
	inHg	0.1	-	-	-	-	-	-
Power Supply Voltage		12 to 24 V DC ±10 % , Ripple (P-P) 10 % or less						
Current Consumption		≤ 40 mA (With no load)						
Switch Output		1NPN or 1PNP open collector Max. Load Current : 125 mA Max. Supply Voltage : 1 NPN 30 V DC, 1 PNP 24 V DC Residual Voltage : ≤ 1.5 V						
Repeatability (Switch Output)		±0.3 % F.S. ±1 digit						
Response Time		≤ 2.5 ms (chattering-proof function : 25 ms, 100 ms, 250 ms, 500 ms, 1000 ms and 1500 ms selections)						
Output Short Circuit Protection		Yes						
Display		3 ½ digital, 7 segment LCD display (Red / Green / Orange) (Sampling rate : 5 times / sec.)						
Indicator Accuracy		±2 % F.S. ±1 digit (ambient temperature : 25 ±3 °C)						
Switch on Indicator		Orange indicator 1 : OUT						
Environment	Enclosure	IP65 *2						
	Ambient Temp. Range	Operation : 0 ~ 50 °C, Storage : -10 ~ 60 °C (No condensation or freezing)						
	Ambient Humidity Range	35 ~ 85 % RH (No condensation)						
	Withstand Voltage	250 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/s² (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		RS-485						
Port Size *3		F1 : R1/4", M5、F2 : NPT1/4", #10-32UNF、F3 : G1/4" (BSPP) , M5						
Lead Wire		Oil-resistance cable (0.15 mm²)						
Weight		Approx. 110 g (Rear ported) ; Approx. 150 g (Bottom ported)						

NOTE :

*1 : When using a unit psi, please multiply display value by 10.

*2 : Air tube must be installed to maintain IP65.

*3 : G port O-Ring material is NBR. if any special request, please contact KITA.

KP75 SERIES

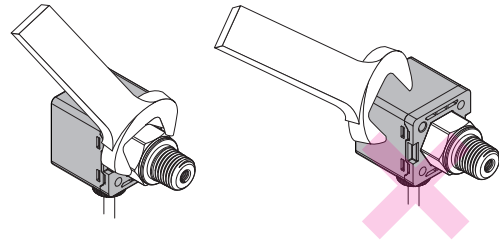
IOT Pneumatic · Hydraulic High Pressure Sensor (Multi-Medium)

Panel Description



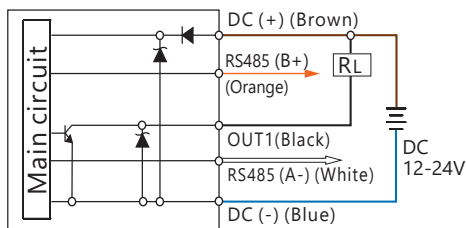
Installation Precautions

- When mounting, always use the wrench on the metallic area near the pressure port. Never apply a wrench to the plastic body, it will damage the sensor.
- Over tightening may cause damages to the port thread, mounting bracket and pressure sensor. Under tightening may result loosen or leakage.
- Apply pressure and power after installation and make necessary adjustments and inspect any possible signs of leakage to ensure proper installation.

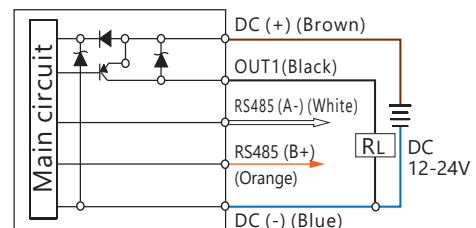


Circuit Wiring Diagrams

KP75□ - 02 - □
NPN output + RS485



KP75□ - 04 - □
PNP output + RS485



Ordering Information

K P 7 5 □ - 0 2 - F 1 □

Pressure Range

C : Compound (-101.0 ~ 101.0 kPa)
P : Positive (-0.100 ~ 1.000 MPa)
H02 : High (-0.100 ~ 2.00 MPa)
H07 : High (0.00 ~ 7.00 MPa)
H10 : High (0.00 ~ 10.00 MPa)
H25 : High (0.00 ~ 25.0 MPa)
H40 : High (0.00 ~ 40.0 MPa)

Output Specifications

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

Pressure Port

F1 : R 1/4", M5
F2 : NPT 1/4", #10-32UNF
F3 : G 1/4" (BSPP) , M5

Piping Direction

Blank : Rear ported
L : Bottom ported

Optional Parts

BT-10 : Mounting bracket
BT-11 : Mounting bracket
PA-E : Panel adapter
PA-F : Panel adapter + Front protective lid

I-0360 : Snubber (for Pressure Port F1 & F3)
I-0379 : Snubber (for Pressure Port F2)
*KP75P & KP75H suggest to select a snubber

Optional Parts

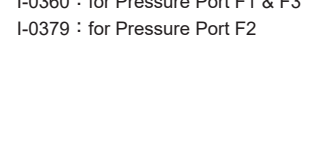
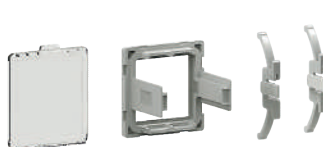
■ Mounting Bracket :
BT-10 / BT-11

■ Panel Adapter : PA-E

■ Panel adapter + Front protective lid :
PA-F

■ Snubber

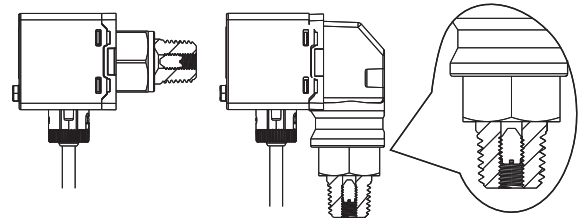
I-0360 : for Pressure Port F1 & F3
I-0379 : for Pressure Port F2



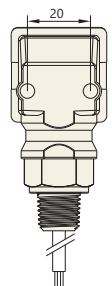
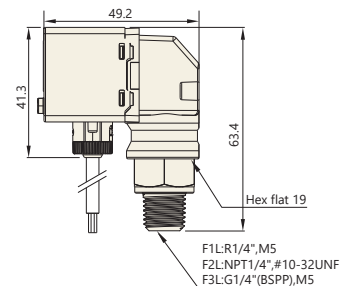
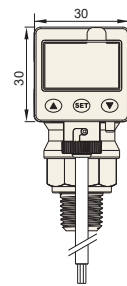
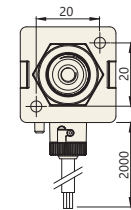
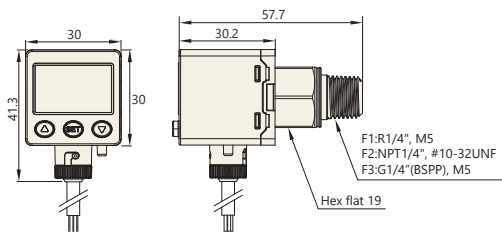
Removable Snubber Installed

- Pressure port equipped with snubber can avoid damage caused by sudden pressure surge of water or oil, improve product durability.

* When snubber is clogged with contaminants, please use a flat head screwdriver to remove the snubber, clean and reinstall.

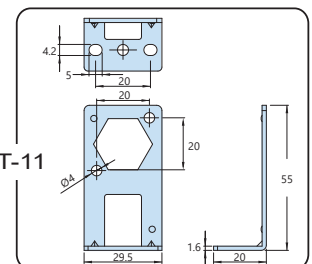
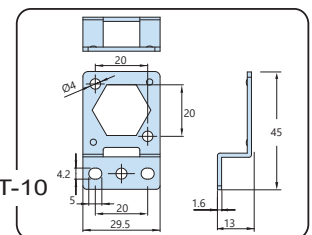
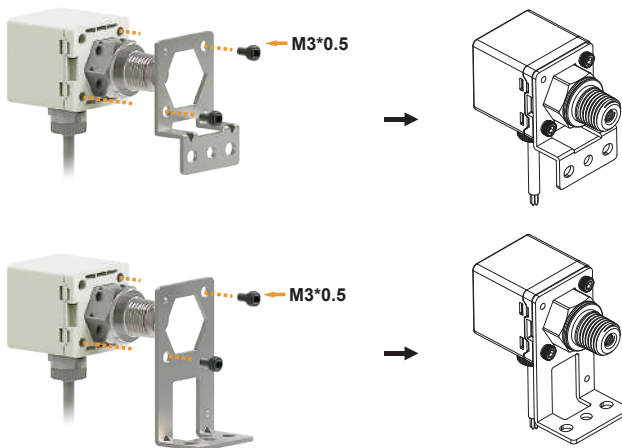


Dimensions

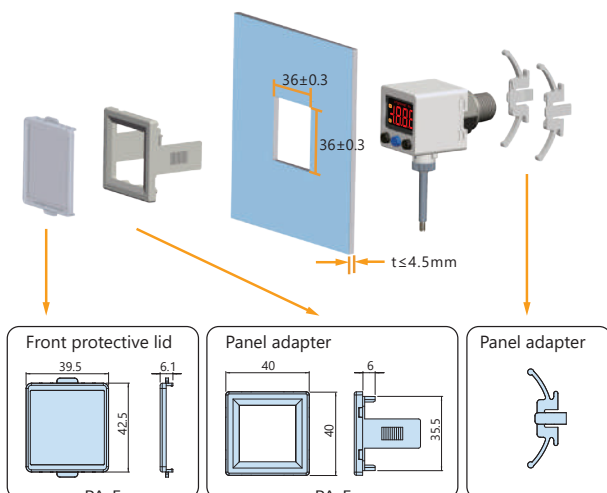


Optional Parts Dimensions

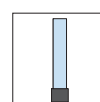
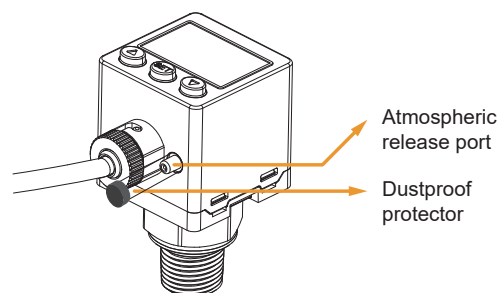
1 Mounting Bracket



2 Panel Mount Adapter + Front Protective Lid



3 IP65 Protector



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

Unit : mm