



19 years of industry experience

Perfect alternative to imported brands

Independent research development professional production

Passed multiple safety tests

Pass 50,000 + hours of trouble-free testing

JINGKONG Precision (Shenzhen) Co., Ltd.

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With **diligence** Focus on **quality control**



V3.5



JK Website



Official
public account

Directory

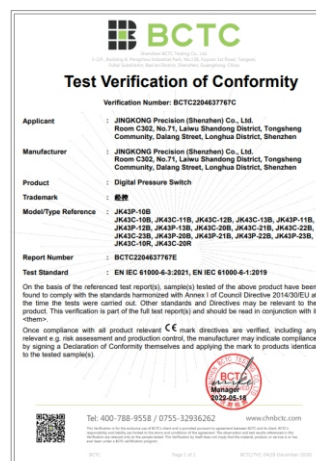
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About Jindkong

Jingkong Precision (Shenzhen) Co., Ltd., established in 2014, specializes in R&D, production, and sales of pressure and flow sensor products. Serving around 100,000 global customers, its business spans domestic and overseas. With strong software and hardware development, it has developed over 70 sensors. These products, highly stable, safe and user - recognized, are used in various industries like automation, robotics, and new energy.

The company adheres to values of quality, innovation, customer - orientation and sustain ability. It offers sensing and control solutions, believing these values are key to success. It focuses on sensor intelligent manufacturing, quality and tech innovation.

- Technical scope: automatic identification technology; Automatic control technology; Over-voltage and under-voltage protection technology; Temperature automatic compensation technology; Automatic protection technology for reverse connection and wrong connection; Precise pressure sampling technology;
- Accurate flow detection technology;
- Market network: The controlled precision sales system is mainly based on the channel market, and the company vigorously develops partners/agents/dealers
- Customized development: According to customer needs to provide professional technical services, welcome OEM/ODM

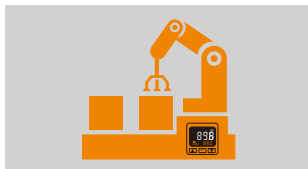


Product feature ►

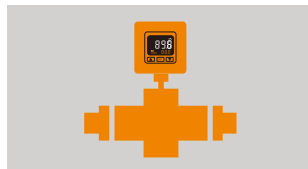
- Adopt HD display, highlight without ghosting
- Using imported chips, higher stability
- Ultra-thin design for easy installation
- 3 color digital LCD intelligent display, easy to distinguish
- Built-in multiple units for clearer display
- Dual screen, display more intuitive
- Power saving mode can be set
- Key lock, prevent non-professional operation
- Multiple output, can separately control multiple devices
- Single output current up to 200mA, can control large loads
- Built-in over current, short circuit protection
- Built-in automatic fault diagnosis, fault code alarm
- Range, factory Settings, functions can be customized according to demand



Field of application ►



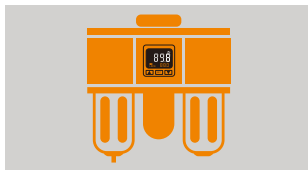
Pipeline pressure detection



Gas leak test



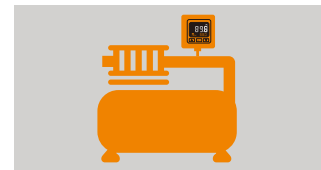
Adsorption confirmation



F.R.L



Gas cylinder



Air compressor

How to order ►

JK43C-10B-F1

Series

- 43:Normal pressure sensor
- 45:Water resistant pressure sensor
- 49:High-Precision Pressure sensor

Type selection

- C:Compound Pressure (-100.0~100.0kPa)
- V:Vacuum Pressure (0~-100.0kPa)
- P:Positive Pressure (-0.100~1.000MPa)
- M:Micro pressure (-10.0~10.0kPa)
- H:High Pressure (-0.100~2.000MPa)

Output type

- 1:NPN output
- 2:PNP output
- 3:NPN+PNP (Only 1 output)
- 0:1 output
- 1:1 output + Analog voltage output (1-5V)
- 2:2 outputs
- 3:2 outputs + Analog voltage output (1-5V)
- 4:1 output + Analog current output (4-20mA)
- 5:2 outputs + Analog current output (4-20mA)

Piping specification

- F1:R1/8", M 5
- F2:NPT1/8", M5
- F3:M5
- F4:RC1/8

Functional type

- B:Basic function
- R:RS485 communication **【only one output】**

Accessory Type **【purchase separately】**

- 12:BT-141 L-bracket
- 13:BT-151 Z-bracket
- 14:MT-100 Panel mount adapter
- 15:MT-101 Panel mount adapter
- +Front protection cover

Specifications ►

		Positive pressure	Micro-pressure	Vacuum pressure	Compound pressure
Rated pressure range		-0.100~1.000MPa	-10.0~10.0kPa ※1	0~-101.0kPa	-100.0~100.0kPa
Set pressure range		-0.100~1.030MPa	-10.3~10.3kPa	10~-103.0kPa	-103.0~103.0kPa
Withstand pressure		1.5Mpa	20kPa	500kPa	500kPa
Fluid		Filtered air, Non-corrosive/Non-flammable gas			
Power supply voltage		12~24VDC±10% Ripple(P-P) ≤ 10 %			
Current consumption		≤40mA(with no load)			
Set pressure resolution	kPa	1	0.01	0.1	0.1
	Mpa	0.001	—	—	—
	kgfa/cm ²	0.01	—	0.001	0.001
	bar	0.01	—	0.001	0.001
	psi	0.1	—	0.01	0.01
	inHg	—	—	0.1	0.1
	mmHg	—	—	1	1
Switch output	NPN: open collector outputs PNP: open collector outputs Max. Load Current: 200mA Max. Load Current: 200mA Residual Voltage: ≤1V Residual Voltage: ≤1V				
Response time	Can set 2.5, 25, 100, 250, 500, 1000, 1500ms				
Analog output (Voltage output)	Voltage (within rated pressure range)	0.6V~5V ±2.5%F.S.	1V~5V ±2.5%F.S.	0.6V~5V ±2.5%F.S.	1V~5V ±2.5%F.S.
	Impedance	About 1KΩ			
	Degree of linearity	±1%F.S			
Analog output (Current output)	Output Current (within rated pressure range)	2.4~20mA ±1%F.S.	4~20mA ±1%F.S.		2.4~20mA ±1%F.S.
	Impedance	Max.Load Impedance: 300Ω at power supply of 12 V, 600 Ω at power supply of 24 V Min.Load Impedance: 50Ω			
	Degree of linearity	±0.1%F.S			
Display	Display	3colors (Red/White/ Orange) (display refresh speed 5 times/second)			
	Display accuracy	±1%F.S. ±1 digit (ambient temperature: 25±3℃)			
	Repeatability	±0.3 % F.s. ± 1 digit			
	Switch on indicator	Orange Indicator 1:OUT1 & Orange Indicator 2:OUT2			
Hysteresis	One point set mode	Hysteresis value is adjustable within 1~8 digits			
	Window comparator mode				
	Hysteresis mode	NO			
Environment	Enclosure	IP40			
	Ambient temprange	Operation: 0~50° C			
	Storage temprange	Storage: -10~60° C (No condensation or freezing)			
	Temperature characteristic	±3%F.S. of detected pressure (25℃) at temp (Range of 0~50℃)			
	Ambient humidity range	Operation/Storage: 35~ 85%RH (No condensation)			
	Withstand voltage	1000V AC in 1-min (between case and lead wire)			
	Insulation resistance	≥50 MΩ (at 500V DC, between case and lead wire)			
	Vibration	Total amplitude 1.5mm or 10G, 10Hz~150Hz~10 HZ scan for 1 minute, 2 hours each direction of X, Y and Z			
	Shock	100m/s ² (10G), 3 times each in direction of X, Y and Z			
Port size		F1: R1/8", M 5, F2: NPT1/8", #10-32UNF, F3: G1/8 (BSPP), M5			
Lead wire		Oil resistant PVC cable (0.15mm ²)			
Weight		Approx. 70g (With 2 meter lead wire)			

Product parameter ►

Withstand pressure	20KPa (Micro-pressure) 500KPa (Compound pressure) 1.5MPa (Positive pressure) 500KPa (Vacuum pressure)	Rated pressure range	-10~10KPa (Micro-pressure) -100~100KPa (Compound pressure) -0.100~1.000MPa (Positive pressure) 0.0~101.0kPa (Vacuum pressure)	Set pressure range	-10.1~10.1kPa (Micro-pressure) -103~103kPa (Compound pressure) -0.103~1.030MPa (Positive pressure) 10.0~103.0kPa (Vacuum pressure)
Enclosure	IP40	Sampling rate	5 times per second	Insulation resistance	≥50 MΩ (at 500V DC, between case and lead wire)
Ambient temp range	0~50℃	Color	LCD display (Red/White/Orange)	Power supply voltage	12~24VDC±10% Ripple(P-P)≤10%
Liability current	≤200mA	Ambient humidity range	Operation/Storage: 35~85%RH (No condensation)	Analog output	Analog voltage: 1V~5V ±2.5%F.S. Analog current: 4mA~20mA ±1%F.S.
Residual Voltage	≤1.0V	Lead wire	Oil resistant PVC cable (0.15mm ²)	Storage temperature	Storage: -10~60℃ (No condensation or freezing)
Current consumption	≤40mA (with no load)	Impedance	about 1KΩ	Withstand voltage	1000V AC in 1-min (between case and lead wire)
Degree of linearity	±1%F.S.	Switch on indicator	Orange Indicator 1: OUT1 Orange Indicator 2: OUT2	Shock	100m/s ² (10G), 3 times each in direction of X, Y and Z
Weight	Approx. 28g (No lead wire)	Rs485 communication distance	Maximum connection distance ≤1200 meters※2	Baud rate	9600bps, 19200bps, 38400bps, 57600bps, 115200bps※2
Applicable gas	Air, non-corrosive, non-combustible (common type) Condensed air, non-corrosive, non-flammable (water-resistant type)	Output type	NPN or PNP collector open output (A maximum of two outputs can be configured Communication type only 1 output)		
Unit minimum scale value	Micro-pressure: KPa (0.01) Positive pressure: MPa (0.001) kgf/cm ² (0.01) bar (0.01) psi (0.1) Compound pressure: KPa (0.1) kgf/cm ² (0.001) bar (0.001) psi (0.01) inHg (0.1) mmHg (1)	Piping specification	R1/8"+M5	NPT1/8"	G1/8 (BSPP)+M5 RC1/8
Vibration	Total amplitude 1.5mm or 10G, 10Hz~150Hz~10 HZ scan for 1 minute, 2 hours each direction of X, Y and Z				

Remark

※1: Micro pressure range (S-01 ~ S-09) section can be adjusted (refer to page 6 for details)

※2: Only Rs485 communication parameters

Specifications ▶

		Positive pressure	Compound pressure	Vacuum pressure	Micro-pressure
Rated pressure range		-0.100~1.000MPa	-100.0~100.0kPa	0.0~-101.0kPa	-10.1~10.1kPa※1
Set pressure range		-0.103~1.030MPa	-103.0~103.0kPa	10.0~-103.0kPa	-10.3~10.3kPa
Withstand pressure		1.5MPa	500kPa	500kPa	20kPa
Fluid		Filtered air, Non-corrosive/Non-flammable gas			
Power supply voltage		12~24VDC±10% Ripple(P-P)≤10%			
Current consumption		≤40mA(with no load)			
Set pressure resolution	kPa	—	0.01		0.001
	Mpa	0.0001	—		—
	kgf/cm ²	0.001	0.0001		—
	bar	0.001	0.0001		—
	psi	0.01	0.001		—
	inHg	—	0.01		—
	mmHg	—	0.1		—
Switch output	Analog output	Open collector output (NPN or PNP, up to 2 outputs)			
	Liability current	Max. Load Current: 200mA			
	Residual Voltage	≤1.0V			
	Response time	Can set 2.5, 25, 100, 250, 500, 1000, 1500ms			
Analog output (Voltage output)	Voltage	0.6V~5V ±2.5%F.S	1V~5V ±2.5%F.S	0.6V~5V ±2.5%F.S	1~5V±2.5%F.S(Under the rated pressure range)
	Impedance	About 1kΩ			
	Degree of linearity	±1%F.S			
Analog output (Current output)	Output Current	2.4~20mA ±1%F.S	4~20mA ±1%F.S	2.4~20mA ±1%F.S	4~20mA ±1%F.S
	Impedance	Minimum load impedance: 50Ω Maximum load impedance: DC12V 300Ω DC24V 600Ω			
	Degree of linearity	Below±0.1%F.S			
Display	Display	LCD display(Red/White/ Orange) (Sampling rate: 0.2, 0.5,1sec. /time)			
	Display accuracy	±0.5%F.S ±2digit(ambient temperature25±3℃)			
	Repeatability	±0.01%F.S ±2digit			
	Switch on indicator	Orange:OUT1 OUT2			
Hysteresis	One point set mode	Hysteresis value is adjustable within1~8 digits			
	Window comparator mode				
	Hysteresis mode	NO			
Environment	Enclosure	IP40			
	Ambient temp range	0~50℃			
	Storage temp range	Storage:-10~60° C (No condensation or freezing)			
	Temperature characteristic	±3%F.S. of detected pressure (25℃) at temp(Range of 0~50℃)			±0.4kPa Comparative temperature 25℃ at temp(Range of 0~50℃)
	Ambient humidity range	Operation/Storage: 35~85%RH (No condensation)			
	Withstand voltage	1000V AC in 1-min (between case and lead wire)			
	Insulation resistance	≥50 MΩ (at 500V DC, between case and lead wire)			
	Vibration	Total amplitude 1.5mm or10G, 10Hz~150Hz~10 HZ scan for 1 minute, 2 hours each direction of X, Y and Z			
Shock		100m/s ² (10G), 3 times each in direction of X, Y and Z			
Port size		1:R1/8", M5, 2:NPT1/8", #10-32UNF, 3:G1/8 (BSPP), M5			
Lead wire		Oil resistant PVC cable (0.15mm ²)			
Weight		Approx. 70g (With 2 meter lead wire)			

Product parameter ▶

Withstand pressure	20KPa (Micro-pressure) 500KPa(Compound pressure) 1.5MPa(Positive pressure) 500KPa(Vacuum pressure)	Rated pressure range	-10~10KPa (Micro-pressure) -100~100KPa (Compound pressure) -0.100~1.000MPa (Positive pressure) 0.0~-101.0kPa (Vacuum pressure)	Set pressure range	-10.1~10.1KPa (Micro-pressure) -103~103KPa (Compound pressure) -0.103~1.030MPa (Positive pressure) 10.0~-103.0KPa (Vacuum pressure)
Enclosure	IP40	Sampling rate	0.5, 1sec. /time	Insulation resistance	≥50 MΩ (at 500V DC, between case and lead wire)
Ambient temp range	0~50℃	Color	LCD display(Red/White/ Orange)	Power supply voltage	12~24VDC±10% Ripple(P-P)≤ 10 %
Liability current	≤200mA	Ambient humidity range	Operation/Storage:35~ 85%RH (No condensation)	Analog output	Analog voltage: 1V~5V ±2.5%F.S Analog current: 4mA~20mA ±1%F.S
Residual Voltage	≤1.0V	Lead wire	Oil resistant PVC cable (0.15mm²)	Storage temperance	Storage:-10~60° C (No condensation or freezing)
Current consumption	≤40mA(with no load)	Impedance	about 1KΩ	Withstand voltage	1000V AC in 1-min (between case and lead wire)
Degree of line arity	±1%F.S	Switch on indicator	Orange Indicator 1:OUT1 Orange Indicator 2:OUT2	Shock	100m/s² (10G), 3 times each in direction of X, Y and Z
Weight	Approx. 28g (No lead wire)	Rs485 communication distance	Maximum connection distance ≤1200 meters※2	Baud rate	9600bps, 19200bps, 38400bps, 57600bps, 115200bps ※2
Applicable gas	Air, non-corrosive, non-combustible (common type) Condensed air, non-corrosive, non-flammable (water-resistant type)			Output type	NPN or PNP collector open output (A maximum of two outputs can be configured Communication type only 1 output)
Unit minimum scale value	Micro-pressure:KPa (0.01) Positive pressure:MPa (0.001) kgfa/cm² (0.01) bar(0.01) psi (0.1) Compound pressure:Kpa (0.1) kgfa/cm² (0.001) bar(0.001) psi (0.01) inHg (0.1) mmHg (1)			Piping specification	R1/8"+M 5 NPT1/8" G1/8(BSPP)+M5 RC1/8
Vibration	Total amplitude 1.5mm or10G, 10Hz~150Hz~10 HZ scan for 1 minute, 2 hours each direction of X,Y and Z				

Remark

※1: Micro pressure range (S-01 ~ S-09) section can be adjusted (refer to page 6 for details)

※2: Only Rs485 communication parameters

Specifications ▶

Jk4* M Micro series		Micro pressure									
Pressure range type		01	02	03	04	05	06	07	08	09	10
Rated pressure range (KPa)		0.00~10.00	0.00~5.00	0.00~3.00	0.00~10.0	0.00~5.00	0.00~3.00	-10.1~10.1	-10.00~10.00	-5.00~5.00	-3.00~3.00
Set pressure range (KPa)		0.00~10.10	0.00~5.10	0.00~3.10	0.00~10.10	0.00~5.10	0.00~3.10	-10.3~10.3	-10.10~10.10	-5.10~5.10	-3.10~3.10
Withstand pressure		20kPa									
Fluid		Filtered air, Non-corrosive/Non-flammable gas									
Power supply voltage		12~24VDC±10% Ripple(P-P)≤ 10 %									
Current consumption		≤40mA (with no load)									
Set pressure resolution	series	Normal					High precision				
	Kpa	0. 01					0. 001Kpa/ 1pa ※1				
Switch output	Analog output	Open collector output (NPN or PNP, up to 2 outputs)									
	Liability current	Max. Load Current: 200mA									
	Residual Voltage	≤1.0V									
	Response time	Can set2.5、25、100、250、500、1000、1500ms					Can set25、100、250、500、1000、1500ms				
Analog output (Voltage output)	Voltage	1~5V±2.5%F.S									
	Impedance	about 1kΩ									
	Degree of linearity	±1%F.S									
Analog output (Current output)	Voltage	2.4~20mA ±1%F.S					±1%F.S				
	Impedance	Minimum load impedance: 50 Ω					Maximum load impedance: DC12V 300 Ω DC24V 600 Ω				
	Degree of linearity	Below±0.1%F.S									
Display	Display	3 colors (white, red, orange) \ (Display refresh speed: 5 times/second)									
	Display accuracy	≤±0.4kPa					≤±0.05kPa				
	Repeatability	≤±0.4kPa					≤±0.05kPa				
	Switch on indicator	Orange OUT1 OUT2									
Hysteresis	One point set mode	1~8 adjustable									
	Window comparator mode										
	Hysteresis mode	NO									
Environment	Enclosure	IP40									
	Ambient temp range	0~50℃									
	storage temp range	Storage:-10~60° C (No condensation or freezing)									
	Temperature characteristic	±0.4kPa Comparative temperature 25℃									
		(0 ~ 50℃ temperature range)									
	Ambient humidity range	Operation/Storage: 35~85%RH (No condensation)									
	Withstand voltage	1000V AC in 1-min (between case and lead wire)									
	Insulation resistance	≥50 MΩ (at 500V DC, between case and lead wire)									
	Vibration	Total amplitude 1.5mm or10G, 10Hz~150Hz~10 HZ scan for 1 minute,2 hours each direction of X,Y and Z									
Shock	100m/s² (10G) , 3 times each in direction of X, Y and Z										
Port size		1:R1/8", M5, 2:NPT1/8", #10-32UNF, 3:G1/8 (BSPP), M5									
Lead size		Oil resistant PVC cable (0.15mm²)									
Weight		Approx. 70g (With 2 meter lead wire)									

Product parameter ▶

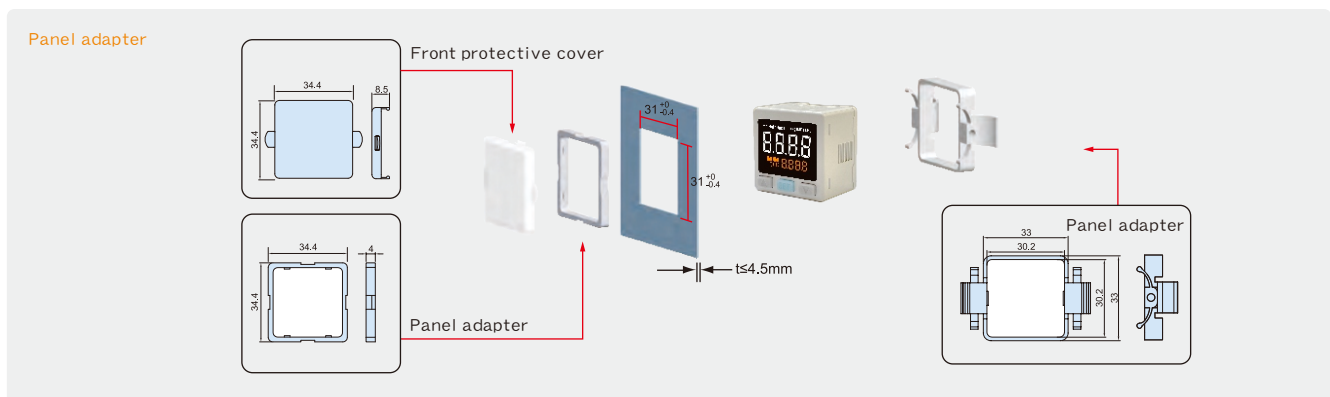
Withstand pressure	20KPa (Micro-pressure)	Rated pressure range	-10~10KPa (Micro-pressure)	Set pressure range	-10.3~10.3KPa (Micro-pressure)
Enclosure	IP40	Sampling rate	5 times per second	Insulation resistance	≥50 MΩ (at 500V DC, between case and lead wire)
Ambient temp range	0~50℃	Color	LCD display (Red/White/Orange)	Power supply voltage	12~24VDC±10% Ripple(P-P)≤10%
Liability current	≤200mA	Ambient humidity range	Operation/Storage: 35~85%RH (No condensation)	Analog output	Analog voltage: 1V~5V ±2.5%F.S Analog current: 4mA~20mA ±1%F.S
Residual Voltage	≤1.0V	Lead wire	Oil resistant PVC cable (0.15mm ²)	Storage temperature	Storage:-10~60℃ (No condensation or freezing)
Current consumption	≤40mA (with no load)	Impedance	about 1KΩ	Withstand voltage	1000V AC in 1-min (between case and lead wire)
Degree of linearity	±1%F.S	Switch on indicator	Orange Indicator 1:OUT1 Orange Indicator 2:OUT2	Shock	100m/s ² (10G), 3 times each in direction of X, Y and Z
Weight	Approx. 28g (No lead wire)	Rs485 communication distance	Maximum connection distance ≤1200 meters※2	Baud rate	9600bps, 19200bps, 38400bps, 57600bps, 115200bps ※2
Applicable gas	Air, non-corrosive, non-combustible (common type) Condensed air, non-corrosive, non-flammable (water-resistant type)			Output type	NPN or PNP collector open output (A maximum of two outputs can be configured Communication type only 1 output)
Unit minimum scale value	Micro-pressure: KPa (0.01) Positive pressure: MPa (0.001) kgf/cm ² (0.01) bar (0.01) psi (0.1) Compound pressure: KPa (0.1) kgf/cm ² (0.001) bar (0.001) psi (0.01) inHg (0.1) mmHg (1)			Piping specification	R1/8" + M5 NPT1/8" G1/8 (BSPP) + M5
Vibration	Total amplitude 1.5mm or 10G, 10Hz~150Hz~10 HZ scan for 1 minute, 2 hours each direction of X, Y and Z				

Remark

※1: High precision can be set Pa

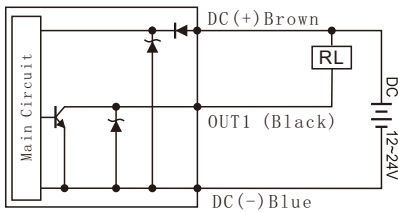
※2: Only Rs485 communication parameters

Panel adapter

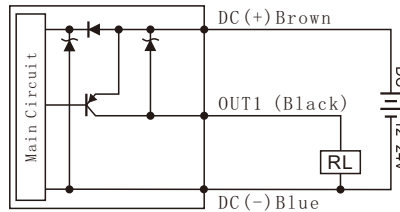


Wiring instructions ►

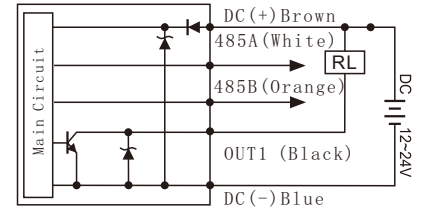
1 NPN Output



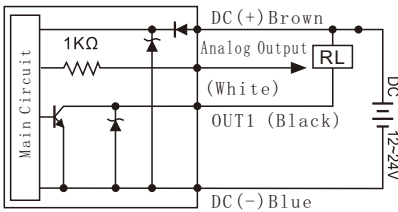
1 PNP Output



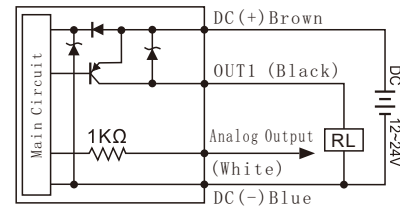
1 NPN+RS485



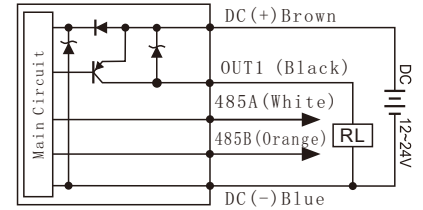
1 NPN+Analog Output(1-5V)



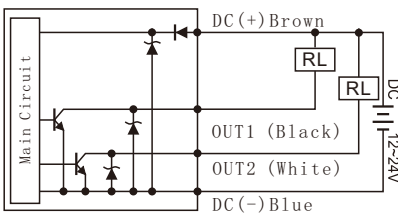
1 PNP+Analog Output(1-5V)



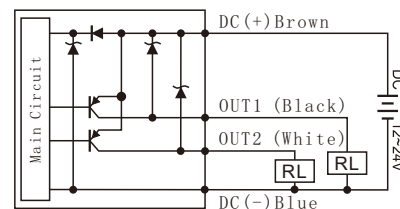
1 PNP+RS485



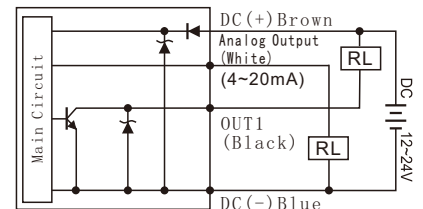
2 NPN Output



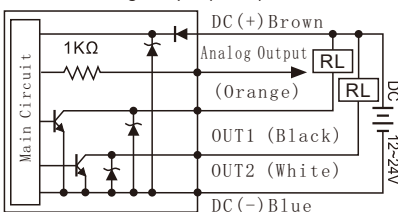
2 PNP Output



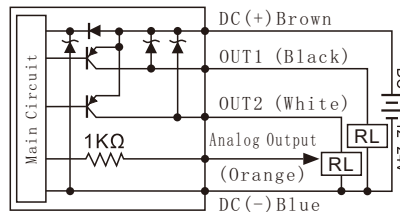
1NPN+Analog output (4~20mA)



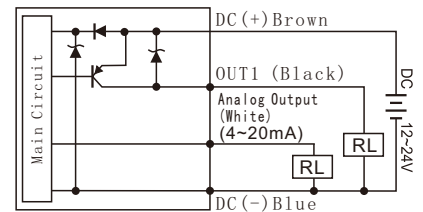
2 NPN+Analog Output(1-5V)



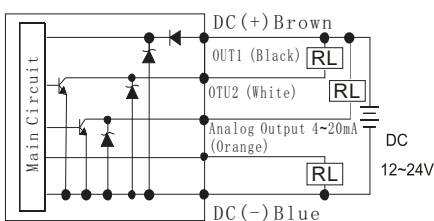
2 PNP+Analog Output(1-5V)



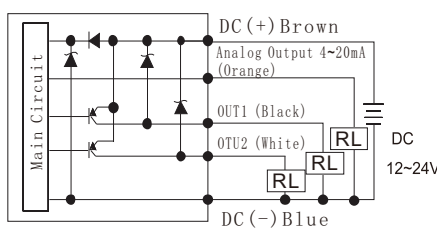
1PNP+Analog output (4~20mA)



2NPN+Analog output (4~20mA)

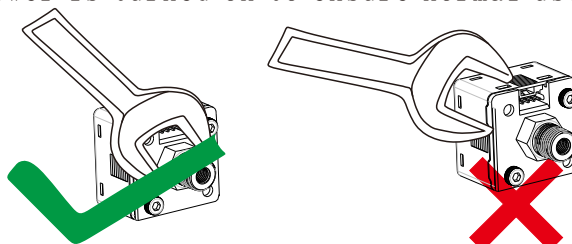


2PNP+Analog output (4~20mA)



Matters needing attention ►

- When installing a pressure sensor, use a wrench to handle the metal part. Don't use a wrench to handle the plastic part
- Mounting screws, fixing brackets, and panel brackets too tight may cause damage, and too loose may fall off or air leakage
- After the installation is complete, add the gas, and do the appropriate operation and gas leak test test after the power is turned on to ensure normal use

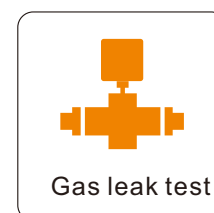


Product feature►

- The product can be used in the air environment with water condensation
- Waterproof design, protection class IP65
- Using imported chips, higher stability
- LED intelligent display, easy to distinguish
- Large font display, clearly visible
- Built-in multiple unit switching
- Power saving mode can be set
- Key lock, prevent non-professional operation
- Multiple output, can separately control multiple devices
- Single output current up to 200mA, can control large loads
- Built-in over current, short circuit protection
- Built-in automatic fault diagnosis, fault code alarm



Field of application►



How to order ►

JK50C-10B-F5

Series

50: Protected pressure sensor

Type selection

C:Compound Pressure (-100.0~100.0kPa)
V:Vacuum Pressure (0~-100.0kPa)
P:Positive Pressure(-0.100~1.000MPa)
M:Micro pressure (-10.0~10.0kPa)
H:High Pressure (-0.100~2.000MPa)

Output type

10:1NPN output +RS485 communication
12:2NPN output
13:2NPN+ analog voltage output (1-5V)
14:2NPN+ Analog current output (4-20mA)

20:1PNP output +RS485 communication
22:2PNP output
23:2PNP+ analog voltage output (1-5V)
24:2PNP+ Analog current output (4-20mA)

Piping specification

F5:Rc1/8"

Functional type

B:Basic function

R:RS485 communication **【only one output】**

Accessory Type **【purchase separately】**

12:BT-141 L-bracket
13:BT-151 Z-bracket
16:MT-102 Panel adapter

Specifications

		Positive pressure	Micro-pressure	Vacuum pressure	Compound pressure
Rated pressure range		-0.100~1.000MPa	-10.0~10.0kPa ※1	0~-101.3kPa	-100.0~100.0kPa
Set pressure range		-0.103~1.030MPa	-10.3~10.3kPa	10~-103.0kPa	-103.0~103.0kPa
Withstand pressure		1.5Mpa	20kPa	500kPa	500kPa
Fluid		Filtered air, Non-corrosive/Non-flammable gas			
Power supply voltage		12~24VDC±10% Ripple(P-P)≤10%			
Current consumption		≤40mA(with no load)			
Set pressure resolution	kPa	—	0.01	0.1	
	Mpa	0.001	—	—	
	kgfa/cm ²	0.01	—	0.001	
	bar	0.01	—	0.001	
	psi	0.1	—	0.01	
	inHg	—	—	0.1	
	mmHg	—	—	1	
Switch output	NPN: open collector outputs Max. Load Current: 200mA Residual Voltage:≤1V PNP: open collector outputs Max. LoadCurrent:200mA Residual Voltage:≤1V				
Response time	Can set 2.5ms,25ms,100ms,250ms,500ms, 1000ms and 1500ms selectable)				
Analog output (Voltage output)	Output voltage	0.6V~5V ±2.5%F.S.	1V~5V ±2.5%F.S. (under rated pressure range)	0.6V~5V ±2.5%F.S.	1V~5V ±2.5%F.S.
	Impedance	About 1kΩ			
	Degree of linearity	±1%F.S			
Analog output (Current output)	Output Current	2.4~20mA ±1%F.S.	4~20mA ±1%F.S.	2.4~20mA ±1%F.S.	4~20mA ±1%F.S.
	Impedance	Minimum load impedance: 50Ω Maximum load impedance: DC12V 300Ω DC24V 600Ω			
	Degree of linearity	±0.1%F.S			
Display	Display	Red \ (Display refresh speed: 5 times/second)			
	Display accuracy	±1%F.S. ±1 digit (ambient temperature:25±3℃)			
	Repeatability	±0.3 % F.s. ± 1 digit			
	Switch on indicator	Red OUT1 OUT2			
Hysteresis	One point set mode	Hysteresis value is adjustable within1~8 digits			
	Window comparator mode				
	Hysteresis mode	NO			
Environment	Enclosure	IP65			
	Ambient temprange	Operation:0~50° C			
	Storage temprange	Storage:-10~60° C (No condensation or freezing)			
	Temperature characteristic	±3%F.S. of detected pressure (25℃) at temp (Range of 0~50℃)			
	Ambient humidity range	Operation/Storage: 35~85%RH (No condensation)			
	Withstand voltage	1000V AC in 1-min (between case and lead wire)			
	Insulation resistance	≥50 MΩ (at 500V DC, between case and lead wire)			
	Vibration	Amplitude is 1.5mm,10Hz ~ 55Hz ~ 10Hz per minute, 2 hours in each direction X, Y and Z			
	Shock	100m/s ² (10G), 3 times each in direction of X, Y and Z			
Port size	F5:Rc1/8"				
Lead wire	Oil resistant PVC cable (0.15mm ²)				
Weight	Approx.108g (With 2 meter lead wire)				

Product parameter

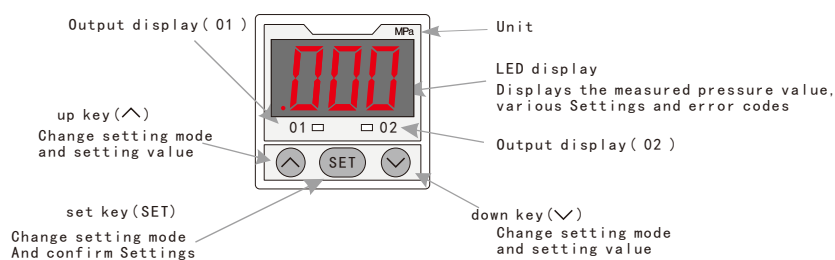
Withstand pressure	30KPa (Micro-pressure) 500KPa(Compound pressure) 1.5MPa(Positive pressure)	Rated pressure range	-10~10KPa (Micro-pressure) -100~100KPa (Compound pressure) -0.100~1.000MPa(Positive pressure)	Set pressure range	-10~10KPa (Micro-pressure) -103~103KPa (Compound pressure) -0.103~1.030MPa(Positive pressure)
Impedance	about 1KΩ	Storage temperature	±3%F.S Comparison reference temperature 25℃ (0~50℃ temperature range)	Temperature characteristic	Storage: -10℃ ~ 60℃ (no water dew and no freezing state)
Enclosure	IP65	Display refresh rate	5 times per second	Insulation resistance	≥50 MΩ (at 500V DC, between case and lead wire)
Ambient temp range	0~50℃	Color	Red	Power supply voltage	12~24VDC±10% Ripple(P-P)≤ 10 %
Liability current	≤200mA	Ambient humidity range	Operation/Storage:35~ 85%RH (No condensation)	Analog voltage	0.6V~5V ±2.5%F. S
Residual Voltage	≤1.0V	Lead wire	Oil resistant PVC cable (0.15mm ²)	Display accuracy	±1%F.S ±1digit(temperature 25±3℃)
Current consumption	≤40mA(with no load)	Repeatability	±0.3%F. S ±1digit	Withstand voltage	1000V AC in 1-min (between case and lead wire)
Degree of linearity	±1%F. S	Switch on indicator	OUT1 OUT2	Shock	100m/s ² (10G), 3 times each in direction of X, Y and Z
Weight	Approx.108g (With 2 meter lead wire)	Applicable gas	Non-corrosive air (medium can contain condensate)	Output type	Open collector output (NPN or PNP, up to 2 outputs)
Unit minimum scale value	Positive pressure:MPa(0.001) kgfa/cm ² (0.01) bar(0.01) psi(0.1) Compound pressure:Kpa(0.1) kgfa/cm ² (0.001) bar(0.001) psi(0.01) inHg(0.1) mmHg(1)	Piping specification Rc1/8"			
Vibration	Total amplitude 1.5mm, 10Hz~150Hz~10 HZ scan for 1 minute, 2 hours each direction of X, Y and Z				

Remark

※1 : Micropressure range (S-01 ~ S-09) section can be adjusted (refer to page 6 for details)

※2 : Only Rs485 communication parameters

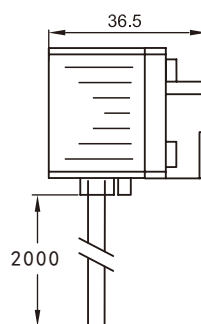
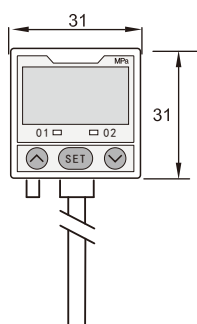
Panel description ▶



Product display ▶



Product size ▶



Connection definition

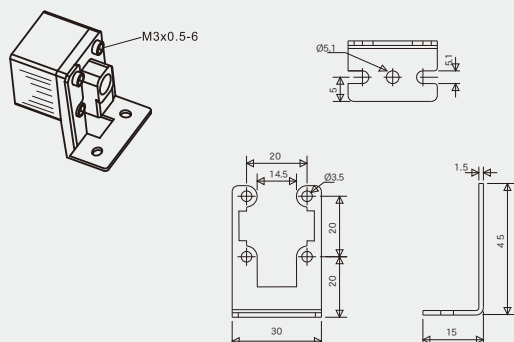
1. brown (+)
2. blue (-)
3. black (OUT1)
4. white (OUT2)
5. orange (V/A OUT)

unit:mm

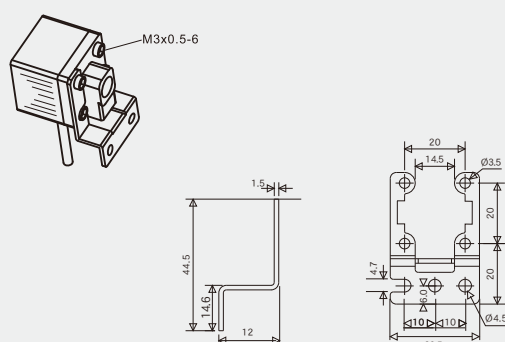
Optional accessories ▶

■ Fixed support installation mode

L-bracket

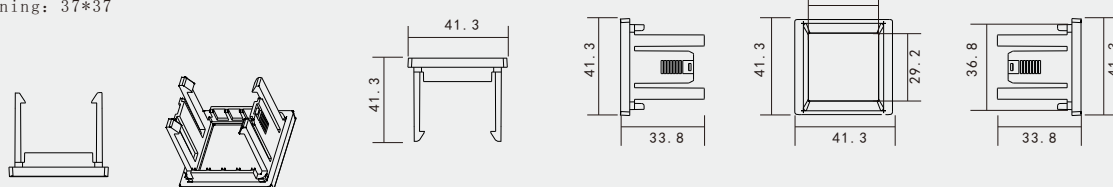


Z-bracket



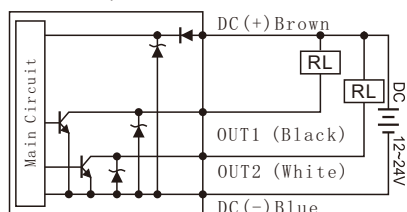
Panel adapter

Panel opening: 37*37
unit: mm)

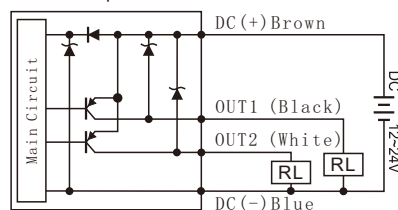


Wiring instructions▶

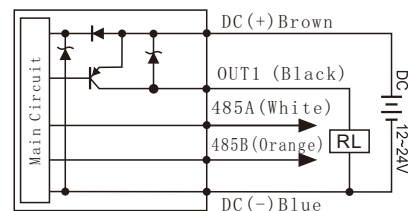
2 NPN Output



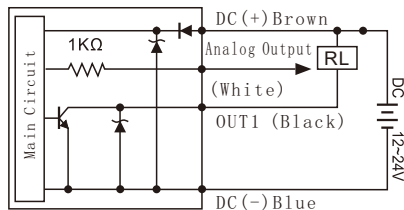
2 PNP Output



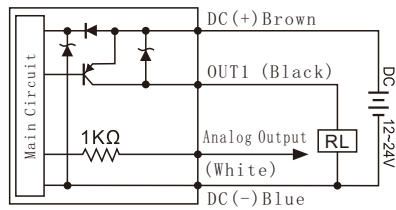
1 PNP+RS485



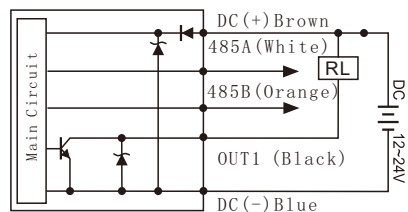
1 NPN+Analog Output(1-5V)



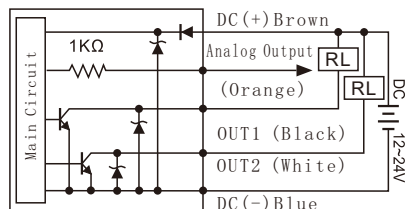
1 PNP+Analog Output(1-5V)



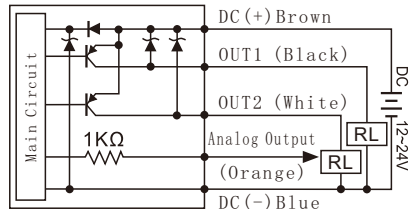
1 NPN+RS485



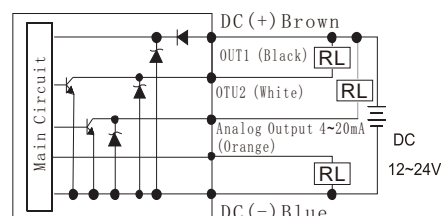
2 NPN+Analog Output(1-5V)



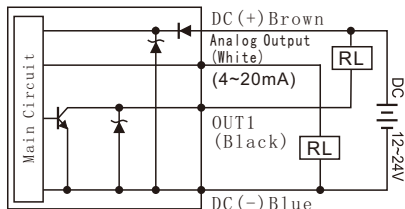
2 PNP+Analog Output(1-5V)



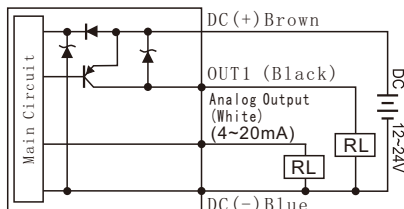
2NPN+Analog output (4~20mA)



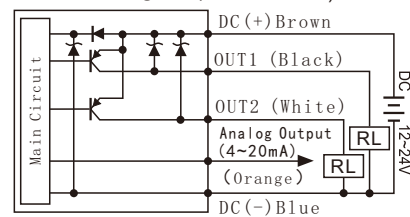
1NPN+Analog output (4~20mA)



1PNP+Analog output (4~20mA)

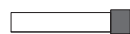
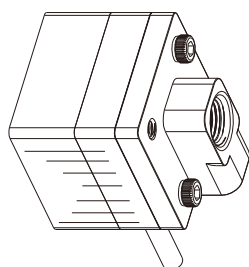


2PNP+Analog output (4~20mA)



Matters needing attention▶

- When installing a pressure sensor, use a wrench to handle the metal part. Don't use a wrench to handle the plastic part
- Mounting screws, fixing brackets, and panel brackets too tight may cause damage, and too loose may fall off or air leakage
- After the installation is complete, add the gas, and do the appropriate operation and gas leak test after the power is turned on to ensure normal use
- There are two air intake positions at the back of this product. Please select an intake hole for easy installation during installation
- If the inlet holes are not in use, use plug bolts and sealant or raw material tape to seal them to prevent pressure leakage



A Dust proof attachment



B Plug bolt



Warning:

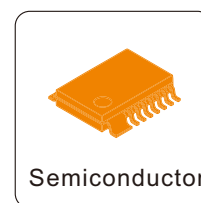
If you do not install A, B accessories, will not be able to achieve IP65 protection level

Product feature ▶

- The product can be used in non-corrosive fluid environment to SUS316
- Induction and nozzle are made of stainless steel 316L
- Waterproof design, protection class IP65
- Using imported chips, higher stability
- LED intelligent display, easy to distinguish
- Large font display, clearly visible
- Built-in multiple unit switching
- Power saving mode can be set
- Key lock, prevent non-professional operation
- Multiple output, can separately control multiple devices
- Single output current up to 200mA, can control large loads
- Built-in over current, short circuit protection
- Built-in automatic fault diagnosis, fault code alarm



Field of application ▶



How to order ▶

JK80C-13B-F8

Series

80:Corrosion-resistant pressure sensor

Type selection

C:Compound Pressure (-100.0~100.0kPa)
V:Vacuum Pressure (0~-100.0kPa)
P:Positive Pressure(-0.100~1.000MPa)
H:High Pressure (-0.100~2.000MPa)

Output type

11:1NPN output +RS485 communication
12:2NPN output
13:2NPN+ analog voltage output (1-5V)
14:2NPN+ Analog current output (4-20mA)

21:1PNP output +RS485 communication
22:2PNP output
23:2PNP+ analog voltage output (1-5V)
24:2PNP+ Analog current output (4-20mA)

Piping specification

F7:Rc1/8"
F8:VCR1/4" (Face seal fitting)
F9:R1/4" (M5 female threaded)
F10:1/4" (Compression fitting)

Functional type

B:Basic function
R:RS485 communication **【only one output】**

Accessory Type **【purchase separately】**

17:BT-141 L-bracket
18:BT-151 Z-bracket
16:MT-102 Panel adapter

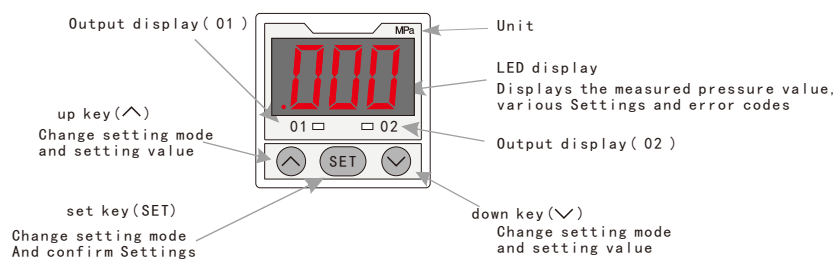
Specifications ►

	Positive pressure	High pressure	Compound pressure
Rated pressure range	-0.100~1.000MPa	0.000~1.999MPa	-100.0~100.0kPa
Set pressure range	-0.103~1.030MPa	-0.103~1.999MPa	-103.0~103.0kPa
Withstand pressure	1.5MPa	3.0MPa	500kPa
Fluid	Non-corrosive fluid for SUS316L and FKM		
Power supply voltage	12~24VDC±10% Ripple(P-P)≤10%		
Current consumption	≤40mA(with no load)		
Set pressure resolution	kPa	—	0.1
	MPa	0.001	—
	kgfa/cm ²	0.01	0.001
	bar	0.01	0.001
	psi	0.1	0.01
	inHg	—	0.1
Switch output	mmHg	—	1
	Output type	Open collector output (NPN or PNP, up to 2 outputs)	
	Load current	MAX 200mA	
	Residual Voltage	≤1.0V	
Analog output (Voltage output)	Response time	Can set 2.5ms, 25ms, 100ms, 250ms, 500ms, 1000ms and 1500ms selectable)	
	Output voltage	0.6V~5V ±2.5%F.S	1V~5V ±2.5%F.S
	Impedance	About 1K	
Analog output (Current output)	Degree of linearity	±1%F.S	
	Output voltage	4~20mA ±3%F.S	2.4~20mA ±3%F.S
	Impedance	Minimum load impedance: 50Ω Maximum load impedance: DC12V 300Ω DC24V 600Ω	
Display	Degree of linearity	Down ±0.1%F.S	
	Display	Red \ (Display refresh speed: 5 times/second)	
	Display accuracy	±1%F.S ±1digit (ambient temperature 25±3℃)	
	Repeatability	±0.3%F.S ±1digit	
Hysteresis	Switch on indicator	Red OUT1 OUT2	
	One point set mode	Hysteresis value is adjustable within 1~8 digits	
	Window comparator mode		
Environment	Hysteresis mode	NO	
	Enclosure	IP65	
	Ambient temprange	0~50℃	
	Storage temprange	Storage:-10~60℃ C (No condensation or freezing)	
	Temperature characteristic	±3%F.S. of detected pressure (25℃) at temp (Range of 0~50℃)	
	Ambient humidity range	Operation/Storage: 35~85%RH (No condensation))	
	Withstand voltage	1000V AC in 1-min (between case and lead wire)	
	Insulation resistance	≥50 MΩ (at 500V DC, between case and lead wire)	
	Vibration	Amplitude is 1.5mm, 10Hz ~ 55Hz ~ 10Hz per minute, 2 hours in each direction X, Y and Z	
Port size		F7: Rc1/8"; F8: VC1/4" (Face seal fitting); F9: R1/4" (M5 female threaded); F10: 1/4" (Compression fitting)	
Lead wire		Oil resistant PVC cable (0.15mm ²)	
Weight		Approx. 148g (With 2 meter lead wire)	

Product parameter ►

Withstand pressure	2.5MPa (High pressure) 500KPa (Compound pressure) 1.5MPa (Positive pressure)	Rated pressure range	-0.100~2.000MPa (High pressure) -100~100KPa (Compound pressure) -0.100~1.000MPa (Positive pressure)	Set pressure range	-0.103~2.030MPa (High pressure) -103~103KPa (Compound pressure) -0.103~1.030MPa (Positive pressure)
Impedance	about 1KΩ	Storage temperature	±3%F.S Comparison reference temperature 25℃ (0~50℃ temperature range)	Temperature characteristic	Storage: -10℃ ~ 60℃ (no water dew and no freezing state)
Enclosure	IP65	Display refresh rate	5 times per second	Insulation resistance	≥50 MΩ (at 500V DC, between case and lead wire)
Ambient temp range	0~50℃	Color	Red	Power supply voltage	12~24VDC±10% Ripple(P-P)≤10%
Liability current	≤200mA	Ambient humidity range	Operation/Storage: 35~85%RH (No condensation)	Analog voltage	0.6V~5V ±2.5%F.S
Residual Voltage	≤1.0V	Lead wire	Oil resistant PVC cable (0.15mm ²)	Display accuracy	±1%F.S ±1digit (temperature 25±3℃)
Current consumption	≤40mA (with no load)	Repeatability	±0.3%F.S ±1digit	Withstand voltage	1000V AC in 1-min (between case and lead wire)
Degree of linearity	±1%F.S	Switch on indicator	Orange OUT1 OUT2	Shock	100m/s ² (10G), 3 times each in direction of X, Y and Z
Weight	Approx. 148g (With 2 meter lead wire)	Applicable gas	Corrosive gases or liquids	Output type	Open collector output (NPN or PNP, up to 2 outputs)
Unit minimum scale value	Positive and high pressure type :MPa(0.001) kgfa/cm ² (0.01) bar(0.01) psi(0.1) Compound pressure: Kpa(0.1) kgfa/cm ² (0.001) bar(0.001) psi(0.01) inHg(0.1) mmHg(1)	Piping specification	Rc1/8" VC1/4" R1/4+M5" 1/4 Compression fitting"		
Vibration	Total amplitude 1.5mm, 10Hz~55Hz~10 HZ scan for 1 minute, 2 hours each direction of X, Y and Z				

Panel description ►



Product display



F7: Rc1/8"



F8: VCRI1/4"
(Face seal fitting)

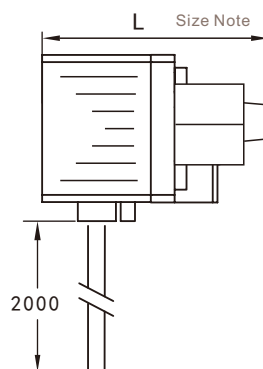
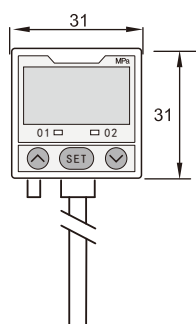


F9: R1/4"
(M5 female threaded)



F10: 1/4"
(Compression fitting)

Product size ►



※Size Note
L Length
F7: L=55
F8: L=61.5
F9: L=55.8
F10: L=56

Connection definition

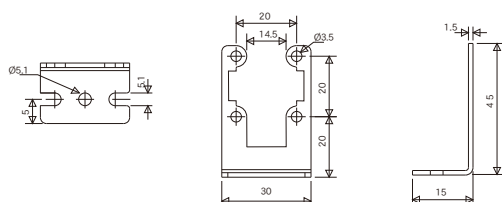
1. brown (+)
2. blue (-)
3. black (OUT1)
4. white (OUT2)
5. orange (V/A OUT)

unit:mm

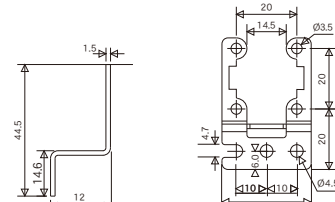
Optional accessories ►

■ Fixed support installation mode

L-bracket



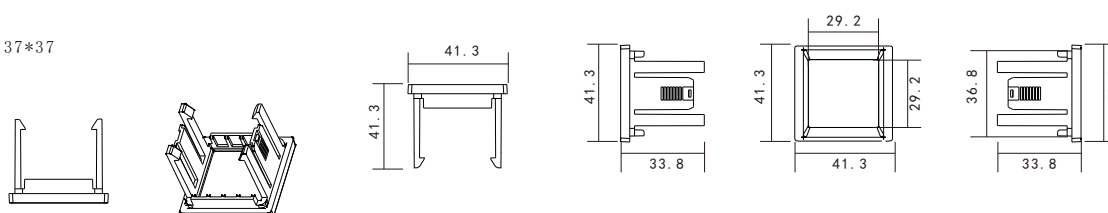
Z-bracket



Panel adapter

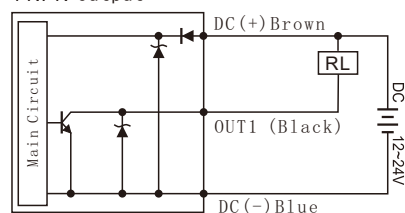
Panel opening: 37*37

unit: mm)

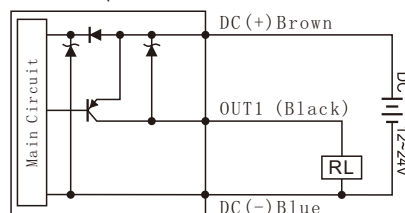


Wiring instructions▶

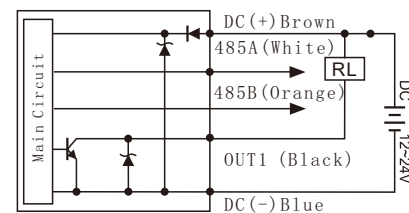
1 NPN Output



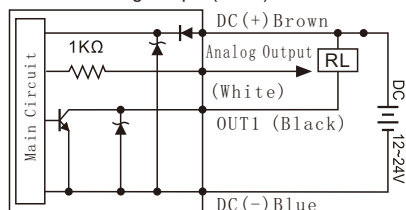
1 PNP Output



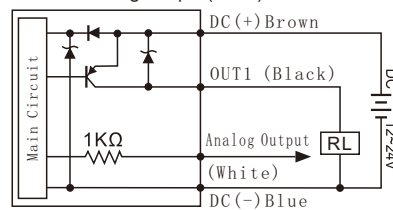
1 NPN+RS485



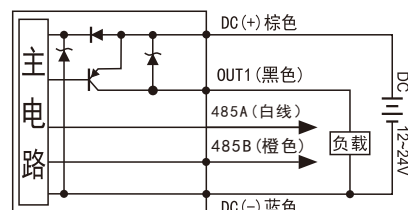
1 NPN+Analog Output(1-5V)



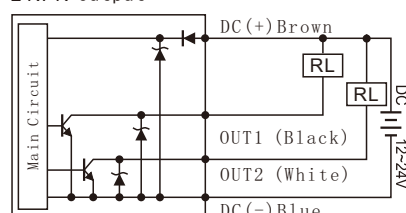
1 PNP+Analog Output(1-5V)



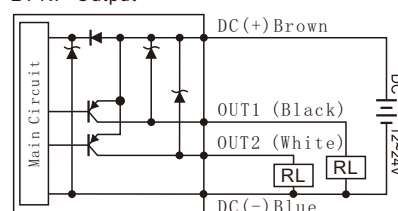
1PNP+RS485



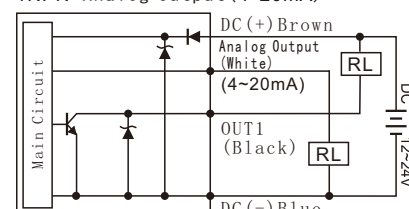
2 NPN Output



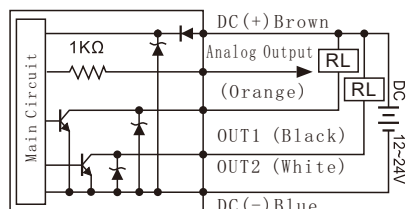
2 PNP Output



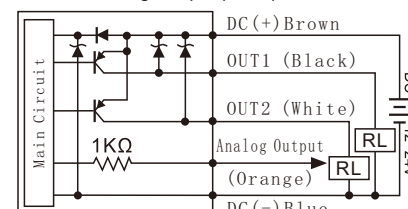
1NPN+Analog output (4~20mA)



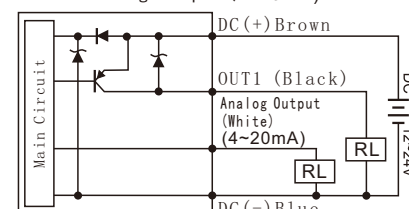
2 NPN+Analog Output(1-5V)



2 PNP+Analog Output(1-5V)

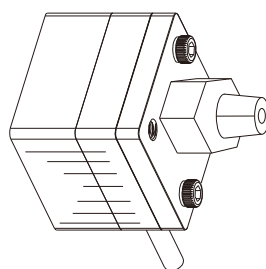


1PNP+Analog output (4~20mA)



Matters needing attention▶

- When installing a pressure sensor, use a wrench to handle the metal part. Don't use a wrench to handle the plastic part
- Mounting screws, fixing brackets, and panel brackets too tight may cause damage, and too loose may fall off or air leakage
- After the installation is complete, add the gas, and do the appropriate operation and gas leak test after the power is turned on to ensure normal use
- There are two air intake positions at the back of this product. Please select an intake hole for easy installation during installation
- If the inlet holes are not in use, use plug bolts and sealant or raw material tape to seal them to prevent pressure leakage



A Dust proof attachment



B Plug bolt

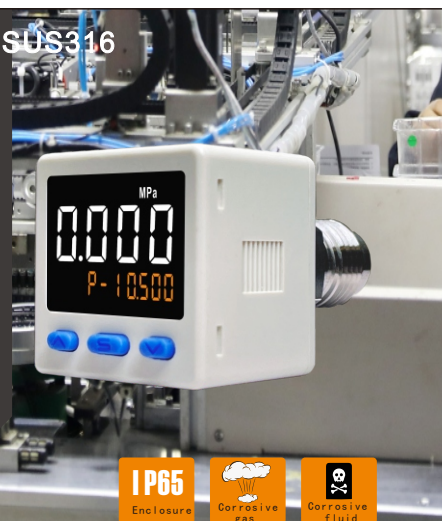


Warning:

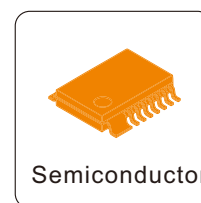
If you do not install A,B accessories, will not be able to achieve IP65 protection level

Product feature ►

- The product can be used in non-corrosive fluid environment to SUS316
- Induction and nozzle are made of stainless steel 316L
- Waterproof design, protection class IP65
- Using imported chips, higher stability
- LED intelligent display, easy to distinguish
- 3 color digital LCD intelligent display, easy to distinguish
- Built-in multiple units for clearer display
- Dual screen, display more intuitive
- Power saving mode can be set
- Key lock, prevent non-professional operation
- Multiple output, can separately control multiple devices
- Single output current up to 200mA, can control large loads
- Built-in over current, short circuit protection
- Built-in automatic fault diagnosis, fault code alarm



Field of application ►



How to order ►

JK20C-13B-F8-L

Series

20:Corrosion-resistant pressure sensor

Type selection

C:Compound Pressure (-100.0~100.0kPa)
V:Vacuum Pressure (0~-100.0kPa)
P:Positive Pressure (-0.100~1.000MPa)
H:High Pressure (-0.100~2.000MPa)

Output type

12:2NPN output
13:2NPN+ analog voltage output (1-5V)
14:2NPN+ Analog current output (4-20mA)
34:1NPN output +RS485 communication

22:2PNP output
23:2PNP+ analog voltage output (1-5V)
24:2PNP+ Analog current output (4-20mA)
35:1PNP output +RS485 communication

Piping direction

Nil:Rear ported
L:Bottom ported

Piping specification

F7:Rc1/8"
F8:VCR1/4"
F9:R1/4"M5

Functional type

B:Basic function
C:Copy function
R:RS485 communication

Accessory Type 【purchase separately】

12:BT-141 L-shaped fixator
13:BT-151 Z-shaped fixator
14:MT-100 Panel mount adapter
15:MT-101 Panel mount adapter
+Front protection cover

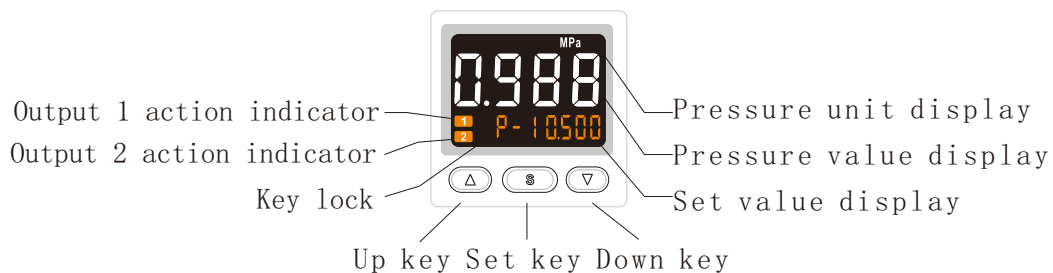
Specifications ►

		High pressure	Positive pressure	Compound pressure	Vacuum pressure
Rated pressure range		-0.100~2.000MPa	-0.100~1.000MPa	-100.0~100.0kPa	0~-100.0kPa
Set pressure range		-0.103~2.030MPa	-0.103~1.030MPa	-103.0~103.0kPa	10.0~-103.0kPa
Withstand pressure		3.0MPa	2.0MPa	500KPa	500KPa
Fluid		Waterproof type: air, non-corrosive, non-flammable Corrosion-resistant type: Used in SUS316, FKM non-corrosive fluid environment			
Power supply voltage		12~24VDC±10% Ripple(P-P)≤10%			
Current consumption		≤40mA (with no load)			
Set pressure resolution	kPa	1	1	0.1	0.1
	MPa	0.001	0.001	—	—
	kgfa/cm²	0.01	0.01	0.001	0.001
	bar	0.01	0.01	0.001	0.001
	psi	0.1	0.1	0.01	0.01
	inHg	—	—	0.1	0.1
	mmHg	—	—	1	1
Switch output	Output type	Open collector output (NPN or PNP, up to 2 outputs)			
	Load current	MAX 200mA			
	Residual Voltage	≤1.0V			
	Response time	≤2.5ms (chattering-proof function: 25ms, 100ms, 250ms, 500ms, 1000ms and 1500ms selectable)			
Analog output (Voltage output)	Output voltage	0.8V~5V ±2.5%F.S	0.6V~5V ±2.5%F.S	1V~5V ±2.5%F.S (Within rated voltage)	0.6V~5V ±2.5%F.S
	Impedance	About 1KΩ			
	Degree of linearity	±1%F.S			
Analog output (Current output)	Output voltage	3.2~20mA (±0.5%F.S)	2.4~20mA (±0.5%F.S)	4~20mA (±0.5%F.S) (Impedance: DC12V maximum impedance 250Ω AC24 maximum impedance 600Ω)	2.4~20mA (±0.5%F.S)
Display	Display	3 colors (white, red, orange) \ (Display refresh speed: 5 times/second)			
	Display accuracy	±1%F.S. ±1 digit (ambient temperature: 25±3℃)			
	Repeatability	±0.3%F.S ±1digit			
	Switch on indicator	OUT1 OUT2			
Hysteresis	One point set mode	Hysteresis value is adjustable within 1~8 digits			
	Window comparator mode				
	Hysteresis mode	NO			
Environment	Enclosure	IP65			
	Ambient temprange	0~50℃			
	Storage temprange	Storage: -10~60° C (No condensation or freezing)			
	Temperature characteristic	±3%F.S. of detected pressure (25℃) at temp (Range of 0~50℃)			
	Ambient humidity range	Operation/Storage: 35~85%RH (No condensation)			
	Withstand voltage	1000V AC in 1-min (between case and lead wire)			
	Insulation resistance	≥50 MΩ (at 500V DC, between case and lead wire)			
	Vibration	Total amplitude 1.5mm or 10G, 10Hz~150Hz~10 HZ scan for 1 minute, 2 hours each direction of X, Y and Z			
	Shock	100m/s² (10G), 3 times each in direction of X, Y and Z			
Port size		F1: R1/8", M 5, F2: NPT1/8", #10-32UNF, F3: G1/8 (BSPP), M5			
Lead wire		Oil resistant PVC cable (0.15mm²)			
Weight		Waterproof type: about 108g (including 2 meters of cable) Corrosion resistant type (VCRI/4") : about 149g (including 2 meters of cable)			

Product parameter ►

Withstand pressure	2.5MPa (High pressure) 500KPa (Compound pressure) 1.5MPa (Positive pressure)	Rated pressure range	-0.100~2.000MPa (High pressure) -100~100KPa (Compound pressure) -0.100~1.000MPa (Positive pressure)	Set pressure range	-0.103~2.030MPa (High pressure) -103~103KPa (Compound pressure) -0.103~1.030MPa (Positive pressure)
Impedance	about 1KΩ	Storage temperature	±3%F.S Comparison reference temperature 25℃ (0~50℃ temperature range)	Temperature characteristic	Storage: -10℃ ~ 60℃ (no water dew and no freezing state)
Enclosure	IP65	Display refresh rate	5 times per second	Insulation resistance	≥50 MΩ (at 500V DC, between case and lead wire)
Ambient temp range	0~50℃	Color	3 color	Power supply voltage	12~24VDC±10% Ripple(P-P) ≤ 10 %
Liability current	≤200mA	Ambient humidity range	Operation/Storage: 35~85%RH (No condensation)	Analog voltage	0.6V~5V ±2.5%F.S
Residual Voltage	≤1.0V	Lead wire	Oil resistant PVC cable (0.15mm ²)	Display accuracy	±1%F.S ±1digit (temperature 25±3℃)
Current consumption	≤40mA (with no load)	Repeatability	±0.3%F.S ±1digit	Withstand voltage	1000V AC in 1-min (between case and lead wire)
Degree of linearity	±1%F.S	Switch on indicator	orange OUT1 OUT2	Shock	100m/s ² (10G), 3 times each in direction of X, Y and Z
Weight	Approx. 148g (With 2 meter lead wire)	Applicable gas	Corrosive gases or liquids	Output type	Open collector output (NPN or PNP, up to 2 outputs)
Unit minimum scale value	Positive and high pressure type :MPa(0.001) kgf/cm ² (0.01) bar(0.01) psi(0.1) Compound pressure: Kpa(0.1) kgf/cm ² (0.001) bar(0.001) psi(0.01) inHg(0.1) mmHg(1)	Piping specification	Rc1/8" VCRI/4" R1/4~M5"		
Vibration	Total amplitude 1.5mm, 10Hz~55Hz~10 Hz scan for 1 minute, 2 hours each direction of X, Y and Z				

Panel description ▶



Product display ▶



F7:Rc1/8"

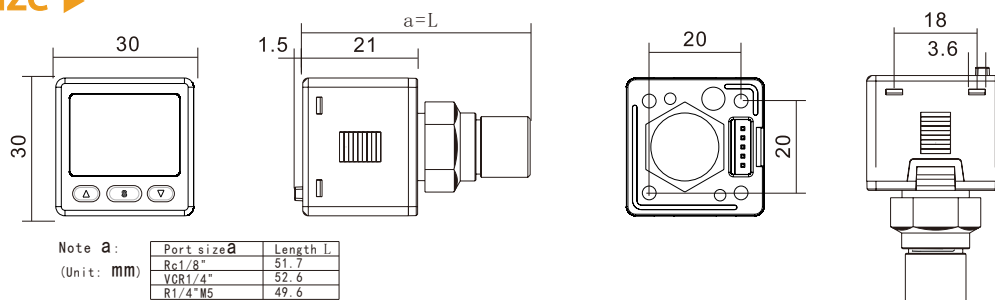


F8:VCR1/4"
(Face seal fitting)



F9:R1/4"
(M5 female threaded)

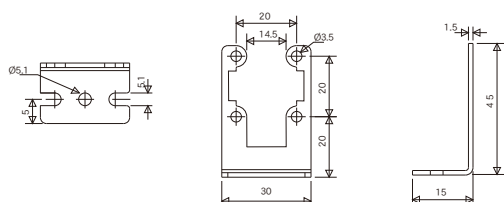
Product size ▶



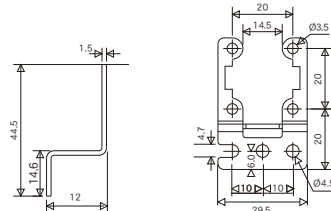
Optional accessories ▶

■ Fixed support installation mode

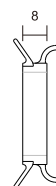
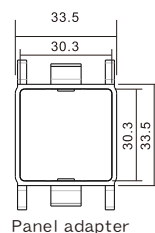
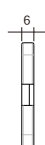
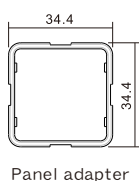
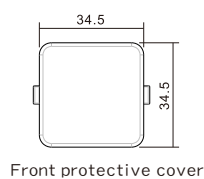
L-bracket



Z-bracket



Panel adapter



Product feature ▶

- The nozzle has a stainless steel interface
- Waterproof design, protection class IP65
- Using imported chips, higher stability
- 3-color digital LCD display for clearer display
- Parent screen, setting more convenient
- Built-in multiple unit switching
- Power saving mode can be set
- Key lock, prevent non-professional operation
- Multiple output, can separately control multiple devices
- Single output current up to 200mA, can control large loads
- Built-in over current, short circuit protection
- Built-in automatic fault diagnosis, fault code alarm

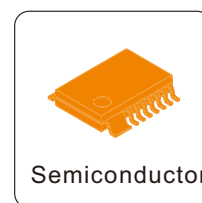


IP65
Enclosure

Condensed
air

5.0
Index

Field of application ▶



How to order ▶

JK21C-13B-F3

Series

21:3 screen waterproof digital display pressure sensor

Type selection

C:Compound Pressure (-100.0~100.0kPa)
V:Vacuum Pressure (0~-100.0kPa)
P:Positive Pressure (-0.100~1.000MPa)
H:High Pressure (-0.100~2.000MPa)
More ranges can be customized...

Output type

12:2NPN output
13:2NPN+ analog voltage output (1-5V)
14:2NPN+ Analog current output (4-20mA)
34:1NPN output +RS485 communication

22:2PNP output
23:2PNP+ analog voltage output (1-5V)
24:2PNP+ Analog current output (4-20mA)
35:1PNP output +RS485 communication

Piping specification

F3:M5
Convertible piping
F1 :R1/8 (Connector FS-11-01)
F2 :NPT1/8 (Connector FS-11-02)
F4 :RC1/8 (Connector FS-11-03)
G4H :One-touch fittingΦ4mm C4L :One-touch fittingΦ4mm
G6H :One-touch fittingΦ6mm C6L :One-touch fittingΦ6mm
N7H :One-touch fittingΦ1/4inch N7L :One-touch fittingΦ1/4inch

Functional type

B:Basic function
C:Copy function
R:RS485 communication

Accessory Type 【purchase separately】

12:BT-141 L-bracket
13:BT-151 Z-bracket
14:MT-100 Panel mount adapter
15:MT-101 Panel mount adapter
+Front protection cover

Specifications ►

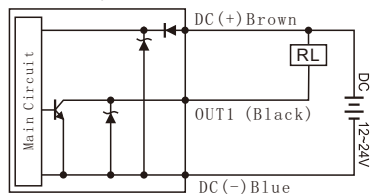
		High pressure	Positive pressure	Compound pressure	Vacuum pressure	Micro-pressure
Rated pressure range		-0.100~2.000MPa	-0.100~1.000MPa	-100.0~100.0kPa	0~-100.0kPa	-10.00~10.00kPa
Set pressure range		-0.103~2.030MPa	-0.103~1.030MPa	-103.0~103.0kPa	10.0~-103.0kPa	-10.30~10.30kPa
Withstand pressure		3.0MPa	2.0MPa	500KPa	500KPa	30KPa
Fluid		Waterproof type: air, non-corrosive, non-flammable Corrosion-resistant type: Used in SUS316, FKM non-corrosive fluid environment				
Power supply voltage		12~24VDC±10% Ripple(P-P)≤ 10 %				
Current consumption		≤40mA (with no load)				
Set pressure resolution	kPa	1	1	0.1	0.1	0.01
	MPa	0.001	0.001	—	—	—
	kgfa/cm ²	0.01	0.01	0.001	0.001	—
	bar	0.01	0.01	0.001	0.001	—
	psi	0.1	0.1	0.01	0.01	0.001
	inHg	—	—	0.1	0.1	0.01
	mmHg	—	—	1	1	0.1
Switch output	Output type	Open collector output (NPN or PNP, up to 2 outputs)				
	Load current	MAX 200mA				
	Residual Voltage	≤1.0V				
	Response time	≤2.5ms(chattering-proof function:25ms,100ms,250ms,500ms,1000ms and 1500ms selectable)				
Analog output (Voltage output)	Output voltage	0.8V~5V ±2.5%F.S	0.6V~5V ±2.5%F.S	1V~5V ±2.5%F.S(Within rated voltage)	0.6V~5V ±2.5%F.S	1V~5V ±2.5%F.S(Within rated voltage)
	Impedance	about 1KΩ				
	Degree of linearity	±1%F.S				
Analog output (Current output)	Output voltage	3.2~20mA(±0.5%F.S)	2.4~20mA(±0.5%F.S)	4~20mA(±0.5%F.S) (Impedance: K121 maximum impedance 250Ω K211 maximum impedance 600Ω)	2.4~20mA(±0.5%F.S)	4~20mA(±0.5%F.S) (Impedance: K121 maximum impedance 250Ω K211 maximum impedance 600Ω)
Display	Display	3 colors (white, red, orange) \ (Display refresh speed: 5 times/second)				
	Display accuracy	±1%F.S. ±1 digit(ambient temperature:25±3℃)				
Hysteresis	Repeatability	±0.3%F.S ±1digit				
	Switch on indicator	OUT1 OUT2				
	One point set mode	Hysteresis value is adjustable within1~8 digits				
	Window comparator mode					
	Hysteresis mode	NO				
Environment	Enclosure	IP65				
	Ambient temprange	0~50℃				
	Storage temprange	Storage:-10~60° C (No condensation or freezing)				
	Temperature characteristic	±3%F.S. of detected pressure (25℃) at temp(Range of 0~50℃)				
	Ambient humidity range	Operation/Storage: 35~ 85%RH (No condensation)				
	Withstand voltage	1000V AC in 1-min (between case and lead wire)				
	Insulation resistance	≥50 MΩ (at 500V DC, between case and lead wire)				
	Vibration	Total amplitude 1.5mm or10G, 10Hz~150Hz~10 HZ scan for 1 minute,2 hours each direction of X,Y and Z				
	Shock	100m/s ² (10G) , 3 times each in direction of X, Y and Z				
Port size		Waterproof type: M5 or plus adapter				
Lead wire		Oil resistant PVC cable (0.15mm ²)				
Weight		Waterproof type: about 108g(including 2 meters of cable) Corrosion resistant type (VCRI/4") : about 149g(including 2 meters of cable)				

Product parameter ►

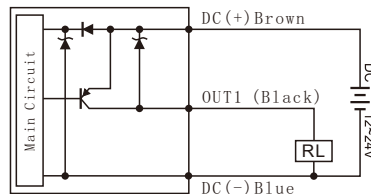
Withstand pressure	2.5MPa (High pressure) 500KPa(Compound pressure) 1.5MPa(Positive pressure)	Rated pressure range	-0.100~2.000MPa (High pressure) -100~100KPa (Compound pressure) -0.100~1.000MPa(Positive pressure)	Set pressure range	-0.103~2.030MPa (High pressure) -103~103KPa (Compound pressure) -0.103~1.030MPa(Positive pressure)
Impedance	about 1KΩ	Storage temperature	±3%F.S Comparison reference temperature 25℃ (0~50℃ temperature range)	Temperature characteristic	Storage: -10℃ ~ 60℃ (no water dew and no freezing state)
Enclosure	IP65	Display refresh rate	5 times per second	Insulation resistance	≥50 MΩ (at 500V DC, between case and lead wire)
Ambient temp range	0~50℃	Color	3 color	Power supply voltage	12~24VDC±10% Ripple(P-P)≤ 10 %
Liability current	≤200mA	Ambient humidity range	Operation/Storage:35~ 85%RH (No condensation)	Analog voltage	0.6V~5V ±2.5%F.S
Residual Voltage	≤1.0V	Lead wire	Oil resistant PVC cable (0.15mm²)	Display accuracy	±1%F.S ±1digit (temperature 25±3℃)
Current consumption	≤40mA(with no load)	Repeatability	±0.3%F.S ±1digit	Withstand voltage	1000V AC in 1-min (between case and lead wire)
Degree of linearity	±1%F.S	Switch on indicator	Orange OUT1 OUT2	Shock	100m/s² (10G) , 3 times each in direction of X, Y and Z
Weight	Approx. 148g (With 2 meter lead wire)	Applicable gas	Corrosive gases or liquids	Output type	Open collector output (NPN or PNP, up to 2 outputs)
Unit minimum scale value	Positive and high pressure type :MPa(0.001) kgfa/cm² (0.01) bar(0.01) psi(0.1) Compound pressure:Kpa(0.1) kgfa/cm² (0.001) bar(0.001) psi(0.01) inHg(0.1) mmHg(1)			Piping specification	M5 or plus adapter
Vibration	Total amplitude 1.5mm, 10Hz~55Hz~10 HZ scan for 1 minute, 2 hours each direction of X, Y and Z				

Wiring instructions ►

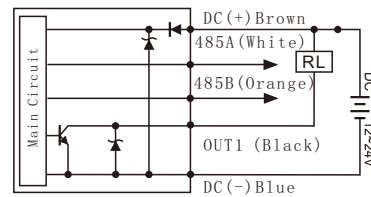
1 NPN Output



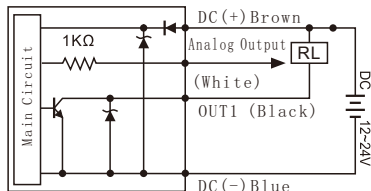
1 PNP Output



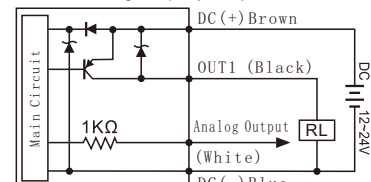
1 NPN+RS485



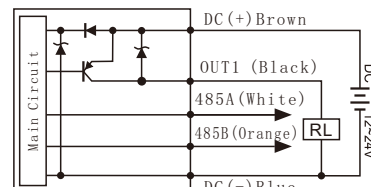
1 NPN+Analog Output(1-5V)



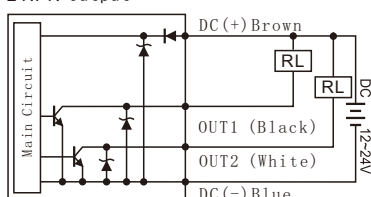
1 PNP+Analog Output(1-5V)



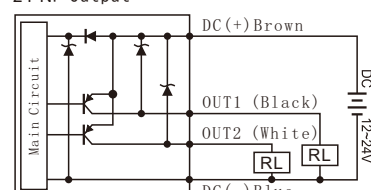
1 PNP+RS485



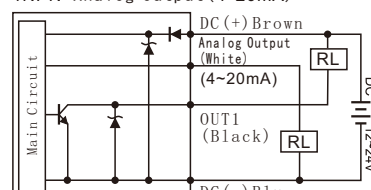
2 NPN Output



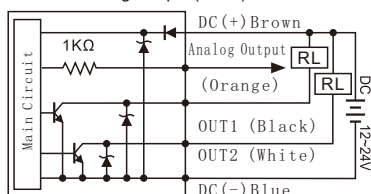
2 PNP Output



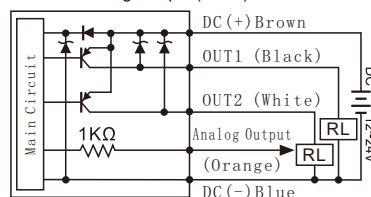
1NPN+Analog output (4-20mA)



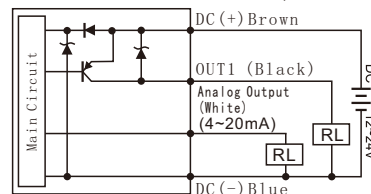
2 NPN+Analog Output(1-5V)



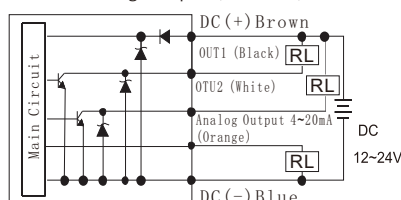
2 PNP+Analog Output(1-5V)



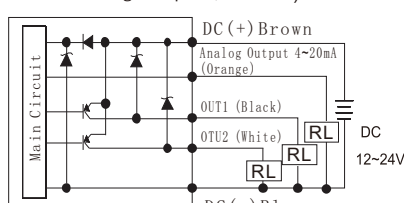
1PNP+Analog output (4-20mA)



2NPN+Analog output (4-20mA)

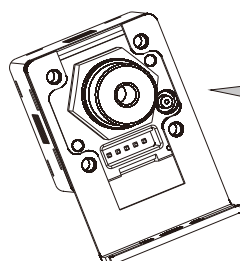


2PNP+Analog output (4-20mA)



Matters needing attention ►

- When installing a pressure sensor, use a wrench to handle the metal part. Don't use a wrench to handle the plastic part
- Mounting screws, fixing brackets, and panel brackets too tight may cause damage, and too loose may fall off or air leakage
- After the installation is complete, add the gas, and do the appropriate operation and gas leak test after the power is turned on to ensure normal use
- There are two air intake positions at the back of this product. Please select an intake hole for easy installation during installation
- If the inlet holes are not in use, use plug bolts and sealant or raw material tape to seal them to prevent pressure leakage



Dust proof
attachment



Warning:

If no accessories are installed,
the IP65 protection level will not be achieved

Specifications ►

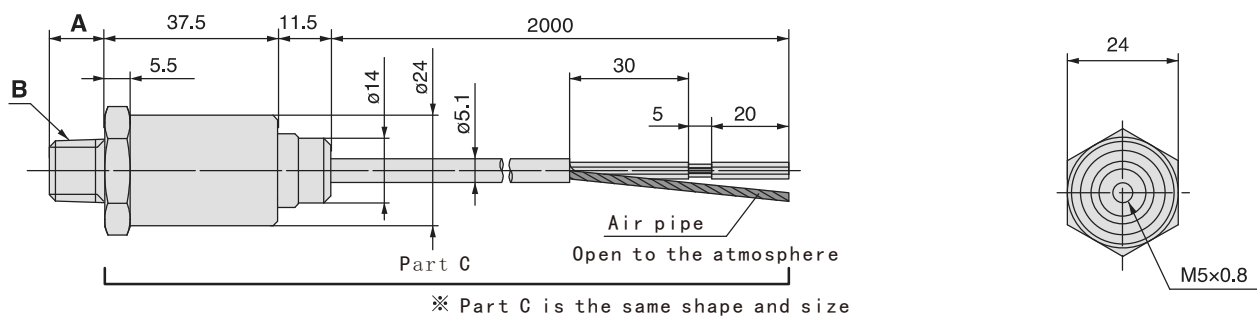
Model number	Positive pressure	Vacuum pressure	Compound pressure	High pressure
Rated pressure range	0~1MPa	0~-101.0kPa	-100~100kPa	0~2MPa
Exten analog output range	-0.1~0MPa	10.1~0kPa	—	-0.1~0MPa
Withstand pressure	1.5MPa	500kPa	500kPa	2.5MPa

Model	1-5V Voltage output type	4-20mA Current output type
Suitable fluid	Non-corrosive fluid for SUS316L and FKM	
Power supply voltage	12~24VDC±10% Ripple(P-P) ≤ 10 %	
Current consumption	≤10mA	—
Output specification	Analog output 1~5V (Rated pressure range) 0.6~1V (Extenslon analog output range) Output impedance 1kΩ	Analog output 4~20mA (Rated pressure range) Output impedance: Below 500Ω (Power supply 24V) Below 100Ω (Power supply 12V)
Accuracy (ambient temperature 25°C)	±1%F.S. (Rated pressure range)	±3%F.S. (Exten analog output range)
Degree of line arity	±0.5%F.S.	
Repeatability	±0.2%F.S.	
Influence of power supply voltage	±0.3%F.S.	
Environment	IP65	
Enclosure	Action: -10~60°C, storage: -20~70°C (no condensation or icing)	
Operating temperature range	Operating/Stored: 35 to 85% RH (No condensation)	
Operating humidity range	AC250V 1 min, between all charging parts and housing	
Withstand voltage	50 MΩ or more (500 VDC measured via megohmmeter) between terminals and housing	
Insulation resistance	±2% F.S. (0-50° C reference) ±3% F.S. (-10-60° C reference)	
Temperature characteristic	Oil resistant vinyl rubber insulated cable with pipe 3-core, ø51 3m Conductor cross-sectional area: 0.2mm² Outer diameter of insulator: 1.12mm	
Power supply Output connection cable		

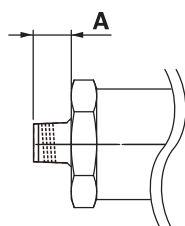
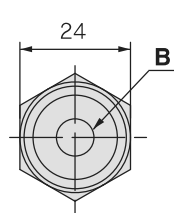
Piping specification

Model number	F1	F7	F8	F9	F10
Nozzle diameter	R1/8" M5*0.8	Rc1/8" M5*0.8	VCR1/4" (Face seal fitting)	R1/4" M5*0.8	1/4" (Compression fitting)
Material	Shell, pipe port, pressure sensor : SUS316L, FKM				
Quality	Cable with sensor				
	Sensor cable not included				

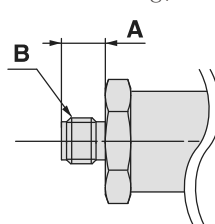
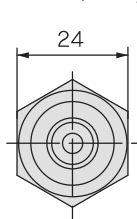
Product size ►



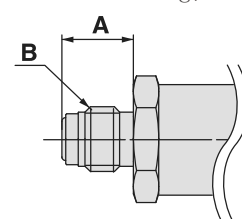
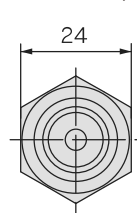
Rc1/8"



1/4" (Compression fitting)



VCR1/4" (Face seal fitting)

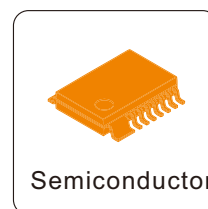


Product feature ▶

- The product can be used in non-corrosive fluids to 316L and FKM
- Waterproof design, protection class IP65
- Split design for a variety of installation environments
- Special corrosion resistant cable
- Built-in automatic fault diagnosis, fault code alarm



Field of application ▶



How to order ▶

MK56 C - 1 C - F9

Series

56: Digital Pressure sensor for General Fluids

Type selection

C: Compound Pressure (-100.0 ~ 100.0kPa)
V: Vacuum Pressure (0 ~ -100.0kPa)
P: Positive Pressure (-0.100 ~ 1.000MPa)
H: High Pressure (-0.100 ~ 2.000MPa)
More ranges can be customized...

Piping specification

F1: R1/8" (M5 female threaded)
F7: Rc1/8"
F8: VCR1/4" (Face seal fitting)
F9: R1/4" (M5 female threaded)
F10: 1/4" (Compression fitting)

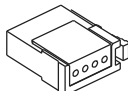
Optional accessories (plugs)

Nil: No plug
C: Pressure sensor ECON connection plug 1
M: Pressure sensor M12 connection plug 1

The gas pipe in the cable must be open to the atmosphere, and it cannot be detected normally if it is blocked or placed in an environment with water and oil.

Output type

Unmarked : 1-5V voltage output type
1: 4-20mA current output type 2 wire
2: 4-20mA current output type 3 wire

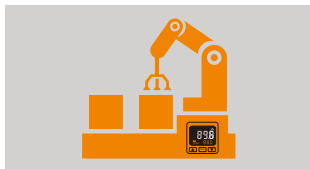
Nil	C	M
No plug	Pressure sensor ECON connection plug 1 	Pressure sensor M12 connection plug 1 

Product feature ►

- Using imported chips, higher stability
- LED intelligent display, easy to distinguish
- Large font display, clearly visible
- Built-in multiple unit switching
- Power saving mode can be set
- Key lock, prevent non-professional operation
- Multiple output, can separately control multiple devices
- Single output current up to 200mA, can control large loads
- Built-in over current, short circuit protection
- Built-in automatic fault diagnosis, fault code alarm



Field of application ►



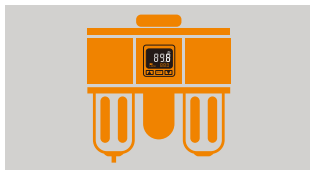
Pipeline pressure detection



Gas leak test



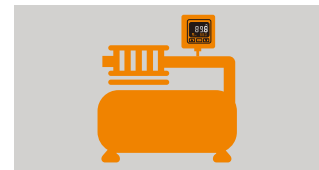
Adsorption confirmation



F.R.L

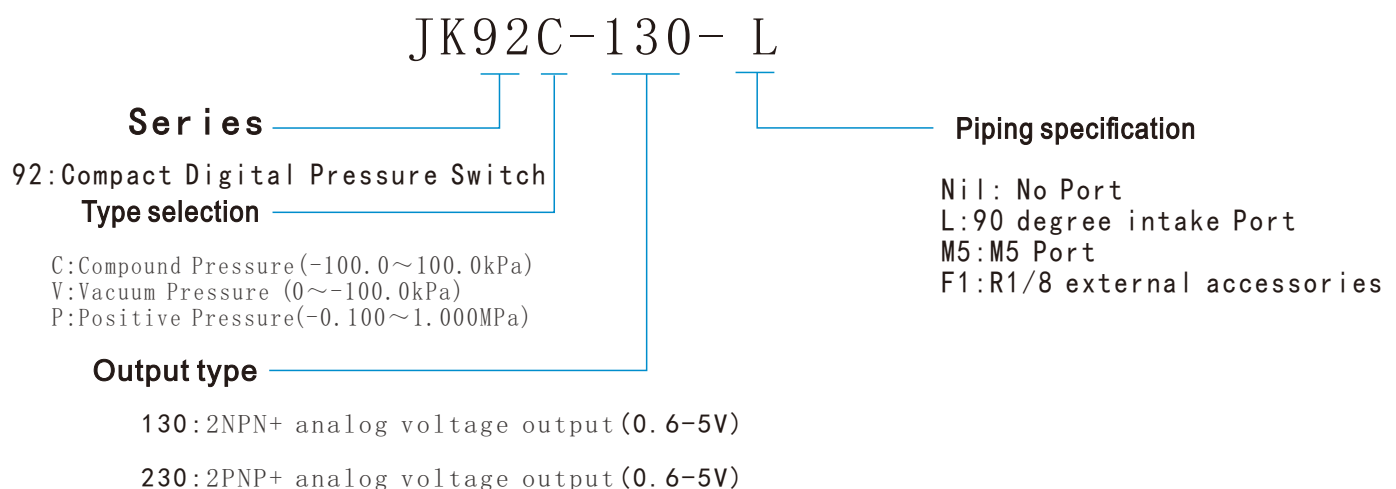


Gas cylinder



Air compressor

How to order ►



Specifications ►

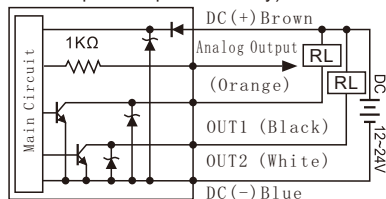
		Compound pressure	Vacuum pressure	Positive pressure
Rated pressure range		-100.0~100kPa	0.0~101.0kPa	-0.100~1.000MPa
Set pressure range		-103.0~103kPa	10.0~103.0kPa	-0.103~1.030MPa
Withstand pressure		500kPa	500kPa	1.5MPa
Fluid		Air, non-corrosive, non-flammable		
Power supply voltage		12~24VDC $\pm$ 10% Ripple(P-P) $\leq$ 10 %		
Current consumption		$\leq$ 40mA (with no load)		
Set pressure resolution	kPa	0.1		—
	Mpa	—		0.001
	kgfa/cm ²	0.001		0.01
	bar	0.001		0.01
	psi	0.01		0.1
	inHg	0.1		—
	mmHg	1		—
Switch output	Output type	Open collector output (NPN or PNP, up to 2 outputs)		
	Load current	MAX 200mA		
	Residual Voltage	$\leq$ 1.5V		
	Maximum voltage	$\leq$ DC28V		
Response time		$\leq$ 2.5ms(chattering-proof function:25ms,100ms,250ms,500ms,1000ms and 1500ms selectable)		
Display	Display	3 colors (white, red, orange) \ (Display refresh speed: 5 times/second)		
	Display accuracy	$\pm$ 1%F.S $\pm$ 1digit (temperature25 $\pm$ 3℃)		
	Repeatability	$\pm$ 0.2%F.S $\pm$ 1digit		
	Color	Red		
Analog voltage output		Output voltage: 1 ~ 5V $\pm$ 2.5% F.S. (Under the rated voltage range) Degree of line arity: $\pm$ 1% F.S. Impedance: About 1k Ω	Output voltage: 0.6 ~ 5V $\pm$ 2.5% F.S. (Under the rated voltage range) Degree of line arity: $\pm$ 1% F.S. Impedance: About 1k Ω	
Environment	Enclosure	IP40		
	Ambient temp range	0~50℃		
	Storage temp range	Storage: -10~60° C (No condensation or freezing)		
	Temperature characteristic	$\pm$ 3%F.S. of detected pressure (25℃) at temp (Range of 0~50℃)		
	Ambient humidity range	Operation/Storage: 35~85%RH (No condensation)		
	Withstand voltage	1000V AC in 1-min (between case and lead wire)		
	Insulation resistance	$\geq$ 50 M Ω (at 500V DC, between case and lead wire)		
	Vibration	Total amplitude 1.5mm or10G, 10Hz~150Hz~10 HZ scan for 1 minute,2 hours each direction of X,Y and Z		
Shock		980m/s ² (100G) 3 times each in direction of X, Y and Z		
Output short-circuit protection		Yes		
Wire specification		Oil resistant PVC cable (0.15mm ²)		
Port size		90 degrees inlet Port; M5 Port; No Port		
Lead wire		Oil resistant PVC cable (0.15mm ² X5)		
Weight		Approx. 70g(excluding cable)		

Product parameter ►

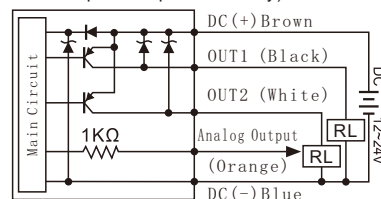
Withstand pressure	500KPa(Compound pressure)	Rated pressure range	-100~100KPa (Compound pressure)	Set pressure range	-103~103KPa (Compound pressure)
Impedance	about 1K Ω	Storage temperature	$\pm$ 3%F.S.Comparison reference temperature 25℃ (0~50℃ temperature range)	Temperature characteristic	Storage: -10℃ ~ 60℃ (no water dew and no freezing state)
Enclosure	IP40	Display refresh rate	5 times per second	Insulation resistance	$\geq$ 50 M Ω (at 500V DC, between case and lead wire)
Ambient temp range	0~50℃	Color	3 color	Power supply voltage	12~24VDC $\pm$ 10% Ripple(P-P) $\leq$ 10 %
Liability current	$\leq$ 200mA	Ambient humidity range	Operation/Storage:35~85%RH (No condensation)	Analog voltage	0.6V~5V $\pm$ 2.5%F.S
Residual Voltage	$\leq$ 1.0V	Lead wire	Oil resistant PVC cable (0.15mm ²)	Display accuracy	$\pm$ 1%F.S $\pm$ 1digit(temperature 25 $\pm$ 3℃)
Current consumption	$\leq$ 40mA(with no load)	Repeatability	$\pm$ 0.3%F.S $\pm$ 1digit	Withstand voltage	1000V AC in 1-min (between case and lead wire)
Degree of linearity	$\pm$ 1%F.S	Switch on indicator	orange OUT1 OUT2	Shock	100m/s ² (10G), 3 times each in direction of X, Y and Z
Weight	Approx. 70g (With 2 meter lead wire)	Applicable gas	Non-corrosive air	Output type	Open collector output (NPN or PNP, up to 2 outputs)
Unit minimum scale value	Compound pressure:Kpa(0.1) kgfa/cm ² (0.001) bar(0.001) psi(0.01) inHg(0.1) mmHg(1)			Piping specification	L:90 degree intake Port M5:M5 Port F1:R1/8 External accessories
Vibration	Total amplitude 1.5mm, 10Hz~55Hz~10 HZ scan for 1 minute,2 hours each direction of X,Y and Z				

Wiring instructions ►

2 NPN+Analog Output(1-5V)
(0.6~5V positive pressure only)

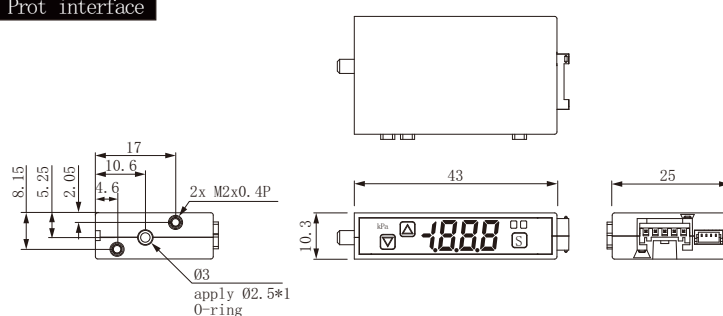


2 PNP+Analog Output(1-5V)
(0.6~5V positive pressure only)



Product size ►

NO Prot interface



L Port interface

