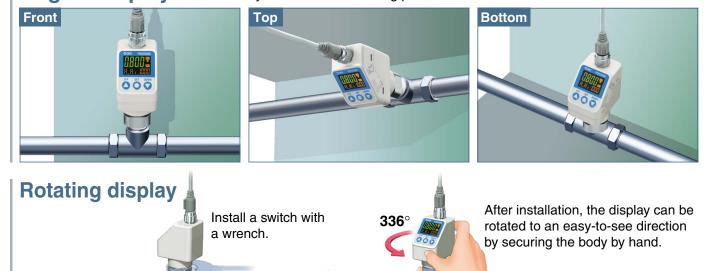
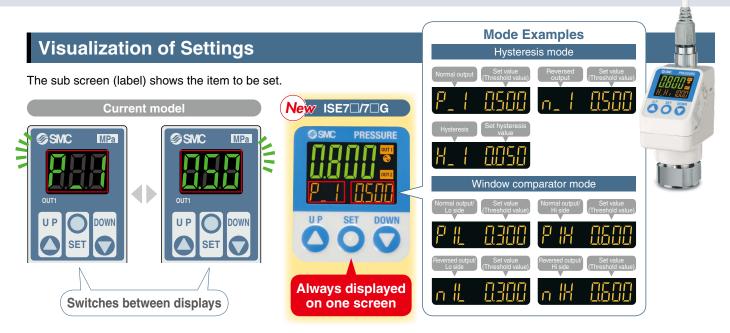


Angled display Good visibility from various mounting positions



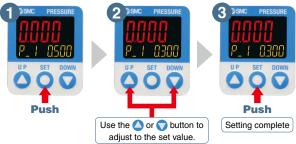


ISE7 /7 G Series



Simple 3-Step Setting

When the SET button is pressed and the set value (P_1) is being displayed, the set value (threshold value) can be set. When the SET button is pressed and the hysteresis value (H_1) is being displayed, the hysteresis value can be set.



With a snap shot function for set value reading. Pressing the and buttons simultaneously for a minimum of 1 second will make the set value (threshold value) the same as the current pressure value. Image: State of the state of the state of the value (threshold value) the same as the current pressure value. Image: State of the state of the value (threshold value) the same as the current pressure value. Image: State of the value (threshold value) the same as the current pressure value. Image: State of the value (threshold value) the same as the current pressure value. Image: State of the value (threshold value) the value (threshold value) the same as the current pressure value. Image: State of the value (threshold value) the value (th

NPN/PNP Switch Function

Both NPN and PNP are available. The number of stock items can be reduced.



Other Sub Screen Display

The peak value, bottom value, or both values can be displayed on one screen!

* Peak and bottom values are maintained even if the power supply is cut.





*1 "psi" and "bar" can be selected when the unit selection function is available. * A combination of the displays shown above and the set values can be displayed on the 2 sub screens.



Convenient Functions

Security code

The key-lock function keeps unauthorized persons from tampering with the settings.

Power-saving mode Power consumption is reduced by turning off the monitor. (Reduce power consumption by approx. 60%.)

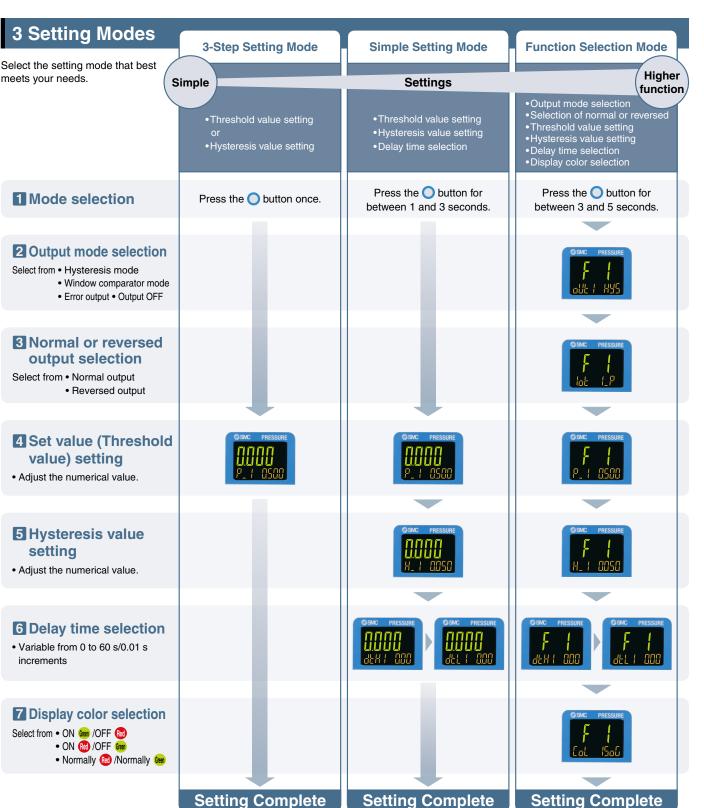
Resolution switch function Reduces monitor flickering Ressure PRESSURE PRESSURE PL 103000 1/1000 1/100

(Only the displayed values are changed; the accuracy remains the same.)

Applied pressure error

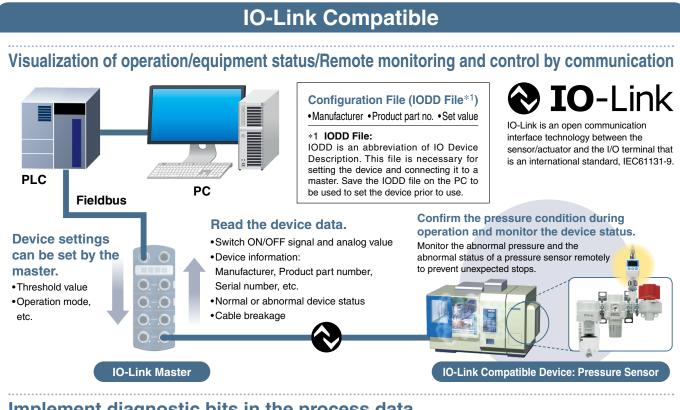
When the applied pressure exceeds the rated pressure, the pressure application is counted as an applied pressure error (the maximum number of applied pressure errors is 1000 counts).





* The chart above shows OUT1 operations. The Function Selection Mode for OUT2 is set using "F2." "2" will be displayed instead of "1" in the illustration above. (Example) P_1 → P_2

3-Screen Display High-Precision Digital Pressure Switch ISE7/706 Series

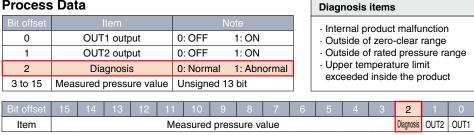


Implement diagnostic bits in the process data.

The diagnostic bit in the cyclic process data makes it easy to find problems with the equipment. It is possible to find problems with the equipment in real time using the cyclic (cycle) data and to monitor such problems in detail with the noncyclic (aperiodic) data.

Process Data

SIO mode

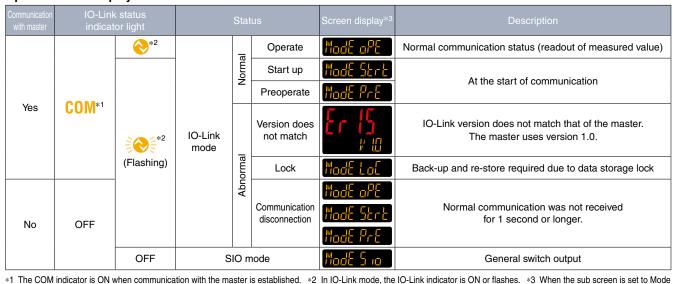


Operate mode

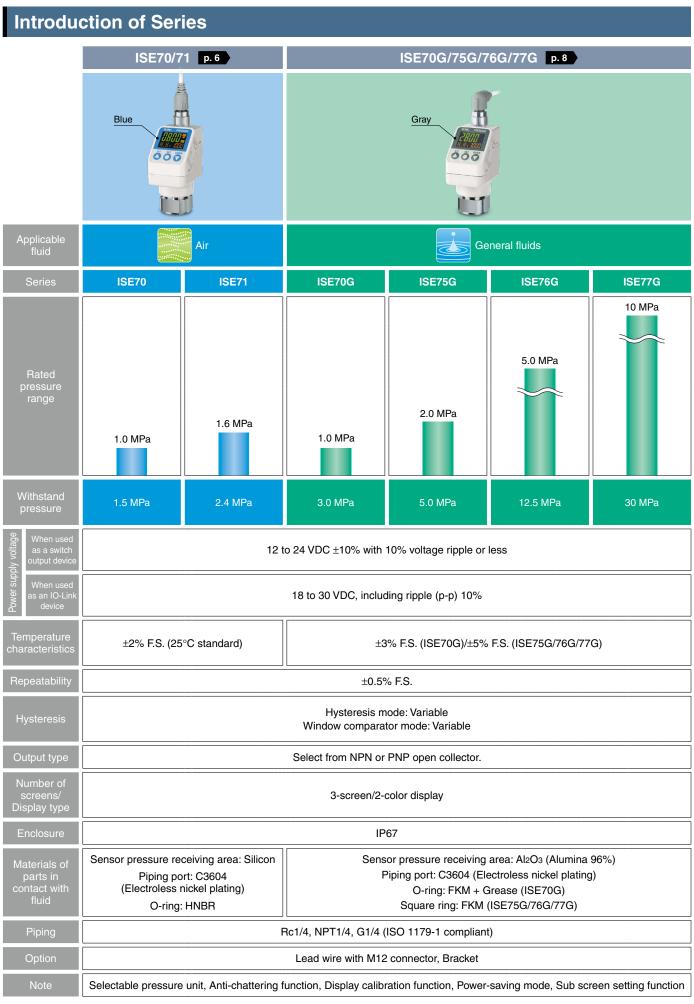
Display function

Displays the output communication status and indicates the presence of communication data

Operation and Display







3-Screen Display High-Precision Digital Pressure Switch *ISE7*/7/*G Series*

For details, refer to the Web Catalog.

For General Fluids: Remote Type Variations

PSE56 Series

- Material of parts in contact with fluid: Stainless steel 316L
- Suitable for a wide variety of fluids
- Analog output (Voltage/Current)
- Select from a face seal or compression fitting.

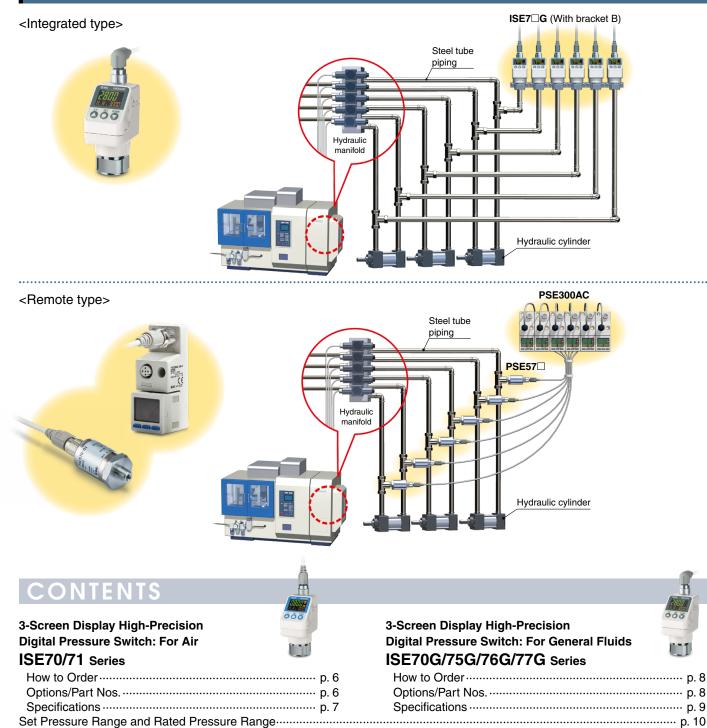


PSE57 Series

- Withstand voltage: 500 VAC
- Materials of parts in contact with fluid Piping port: C3604 + Nickel plating Pressure sensor: Al2O3 (Alumina 96%) O-ring: FKM + Grease (PSE570/573/574) Square ring: FKM (PSE575/576/577)



Select either the integrated type or the remote type according to the application.

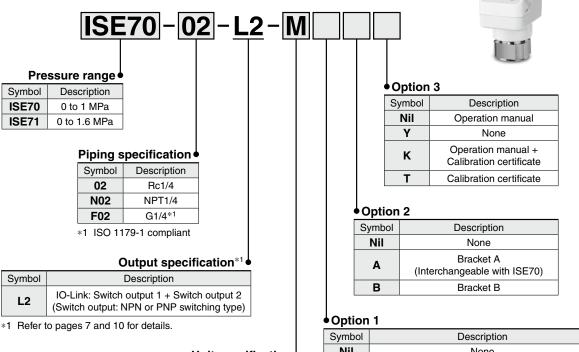


@SMC

5

3-Screen Display O IO-Link (C Wus RoHS) High-Precision Digital Pressure Switch: For Air ISE70/71 Series

How to Order



Unit specification

SMC

Symbol	Description
Nil	Unit selection function*1
М	SI unit only*2

*1 Under the New Measurement Act, switches with the unit selection function are not permitted for use in Japan.

*2 Fixed unit: MPa, kPa

	••••••	•
S	Symbol	Description
	Nil	None
	S	Lead wire with M12 connector (Straight, 5 m)
	L	Lead wire with M12 connector (Right-angled, 5 m)

Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.					
Descripti	on	Part no.	Note		
Bracket A	000	ZS-50-A	Interchangeable with ISE70 With 2 mounting screws (M4 x 6L)		
Bracket B		ZS-50-B	With 2 mounting screws (M4 x 6L)		
Lead wire with M12 connector: Straight		ZS-31-B	Lead wire length: 5 m		
Lead wire with M12 connector: Right-angled		ZS-31-C	Lead wire length: 5 m		

ISE70/71 Series

Specifications

For pressure switch precautions and specific product precautions, refer to the "Operation Manual" on the SMC website.

		Model	ISE70	ISE71		
Annliaghla	fluial.	Model	Air, Non-corrosive ga	-		
Applicable			, ,	· · · · · · · · · · · · · · · · · · ·		
	•	sure range	0 to 1.000 MPa	0 to 1.600 MPa		
Pressure		t pressure range	-0.105 to 1.050 MPa	-0.105 to 1.680 MPa		
		nallest settable increment	0.001 MPa	0.001 MPa		
	Withstand	pressure	1.5 MPa 2.4 MPa			
	Power supply	When used as a switch output device	12 to 24 VDC ±10% with	10% voltage ripple or less		
Power supply	voltage When used as an IO-Link device		18 to 30 VDC, includ	ling ripple (p-p) 10%		
	Current co	nsumption	35 mA	or less		
	Protection		Polarity p	protection		
	Display ac	curacy	±2% F.S. ±1 digit (Ambien	t temperature of 25 \pm 3°C)		
Accuracy	Repeatabil	ity	±0.5%	% F.S.		
	Temperatu	re characteristics	±2% F.S. (25	°C standard)		
	Output typ	e	Select from NPN or PN	P open collector output.		
	Output mo	de	Hysteresis, Window compara	tor, Error output, Output OFF		
	Switch ope	eration		Reversed output		
	•	load current	· ·	mA		
Switch		applied voltage	30 V (NP			
output		Itage drop (Residual voltage)	1.5 V or less (at loa	. ,		
(SIO mode)	Delay time			n 0 to 60 s/0.01 s increments		
	-	Hysteresis mode				
	Hysteresis	Window comparator mode	Variable	Variable from 0*2		
	Short circu	uit protection	Yes			
	Unit*3					
	Display typ		MPa, kPa, kgf/cm², bar, psi LCD			
Display	Number of			screen, Sub screen x 2)		
	Display co			en, Sub screen: Orange		
		display digits	Main screen: 4 digits (7 segments), Sub screen: 4 dig			
B: :: 1 (1)	Indicator li	gnt	Lights up when switch output is to			
Digital filte) s/0.01 s increments		
	Enclosure		IP			
_	Withstand		1000 VAC for 1 minute between terminals and housing			
Environment	Insulation			gohmmeter) between terminals and housing		
	Operating temperature range		Operating: 0 to 50°C, Stored: -10 to 60°C (No condensation or freezing)			
	Operating	humidity range	Operating/Stored: 35 to 85% RH (No condensation)			
Standards			UL/CSA (E216656), CE, RoHS			
	Port size		Rc1/4, NP	T1/4, G1/4		
Piping	Materials c	of parts in contact with fluid	Piping port: C3604 (Electroles	ceiving area: Silicon s nickel plating), O-ring: HNBR		
		Port size Rc1/4		3 g		
Weight	Body	Port size NPT1/4	15	2 g		
····		Port size G1/4	150 g			
	Lead wire	with connector	13	9 g		
	IO-Link typ	0e	Device			
	IO-Link ver	rsion	V1.1			
	Communic	ation speed	COM2 (38.4 kbps)			
	Configurat	ion file	IODD file*5			
Communication	Minimum o	cycle time	2.3 ms			
(IO-Link mode)	Process da	ata length	Input data: 2 bytes, Output data: 0 byte			
	On reques	t data communication	Yes			
		ge function	Ye	98		
	Event func	*	Yes			
	Vendor ID		131 (0	x 0083)		
		ter (at 0 ms)		/		

*1 Value without digital filter (at 0 ms)
*2 If the applied pressure fluctuates around the set value, the hysteresis must be set to a value more than the amount of fluctuation, or chattering will occur.

*3 Setting is only possible for models with the unit selection function. Only MPa or kPa is available for models without this function.

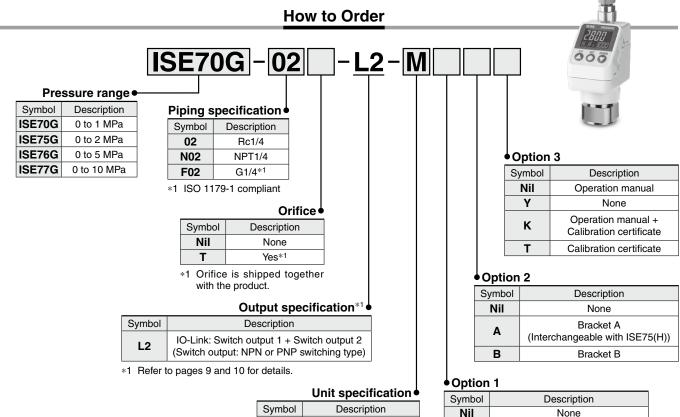
*4 The response time indicates when the set value is 90% in relation to the step input.

*5 The configuration file can be downloaded from the SMC website, http://www.smcworld.com

* Products with tiny scratches, marks, or display color or brightness variations which do not affect the performance of the product are verified as conforming products.



3-Screen
DisplayIO-Link (€ с С из понконский
C с С из понконский
DisplayRoHSHigh-Precision Digital Pressure Switch: For General FluidsISE70G/75G/76G/77G Series



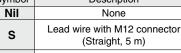
Symbol Description		
Nil	Unit selection function*1	
М	SI unit only*2	
*1 Under	the New Measurement	

Act, switches with the unit selection function are not permitted for use in Japan.
 *2 Fixed unit: MPa, kPa

Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

When only optional parts are required, order with the part numbers listed below.							
Description	Part no.	Note					
Orifice	ZS-48-A	Without orifice					
Bracket A	2S-50-A	Interchangeable with ISE75(H) With 2 mounting screws (M4 x 6L)					
Bracket B	сарана 2 ZS-50-В	With 2 mounting screws (M4 x 6L)					
Lead wire with M12 connector: Straight	ZS-31-B	Lead wire length: 5 m					
Lead wire with M12 connector: Right-angled	ZS-31-C	Lead wire length: 5 m					



	(Ortalgin, O m)
	Lead wire with M12 connector
L	(Bight-angled 5 m)



ISE70G/75G/76G/77G Series

Specifications

For pressure switch precautions and specific product precautions, refer to the "Operation Manual" on the SMC website.

		Model	ISE70G	ISE75G	ISE76G	ISE77G	
Applicable	fluid			as that will not corrode m	aterials of parts in conta		
	Rated pressure range		0 to 1.000 MPa	0 to 2.000 MPa	0 to 5.00 MPa	0 to 10.00 MPa	
		t pressure range	-0.105 to 1.050 MPa	-0.105 to 2.100 MPa	-0.25 to 5.25 MPa	-0.50 to 10.50 MPa	
Pressure	Display/Smallest settable increment		0.001 MPa	0.001 MPa	0.01 MPa	0.01 MPa	
	Withstand			5.0 MPa	12.5 MPa	30 MPa	
	withstand	•	3.0 MPa	5.0 MFa	12.5 10178	30 MFa	
	Power supply	When used as a switch output device	12 to 24 VDC ±10% with 10% voltage ripple or less				
Power supply	voltage	When used as an IO-Link device					
	Current co	nsumption		35 mA	or less		
	Protection			Polarity p	rotection		
	Display acc	curacy	±	2% F.S. ±1 digit (Ambien	t temperature of 25 ±3°0	C)	
Accuracy	Repeatabil	ity		±0.5%	6 F.S.		
	Temperatur	e characteristics (25°C standard)	±3% F.S.		±5% F.S.		
	Output type	e		Select from NPN or PN	P open collector output.		
	Output mo	de	Hyste	eresis, Window compara	tor, Error output, Output	OFF	
	Switch ope		,	Normal output, I	• · · •		
		oad current		80			
Switch		applied voltage		30 V (NP			
output		Itage drop (Residual voltage)		1.5 V or less (at loa	. ,		
(SIO mode)	Delay time	• • • • •	0 ~	ns or less, variable from	,	onte	
			211	is of iess, variable itolit			
	Hysteresis	Hysteresis mode Window comparator mode		Variable			
		it protection		Ye			
	Unit*3			MPa, kPa, kg			
	Display typ	be	LCD				
Display	Number of	screens		3-screen display (Main	screen, Sub screen x 2)		
Display	Display col	lor		Main screen: Red/Gree	n, Sub screen: Orange		
	Number of	display digits	Main screen: 4 digits (7 se	egments), Sub screen: 4 dig	its (Upper 1 digit 11 segme	ents, 7 segments for other)	
	Indicator li	ght	Lights up	when switch output is tu	rned ON (OUT1, OUT2	: Orange)	
Digital filte	Digital filter*4			Variable from 0 to 30	s/0.01 s increments		
	Enclosure		IP67				
	Withstand	voltage	500 VAC for 1 minute between terminals and housing				
Environment	Insulation	resistance	50 M Ω or more (500 VDC measured via megohmmeter) between terminals and housing				
	Operating	temperature range	Operating: -5 to 50°C, Stored: -10 to 60°C (No condensation or freezing)				
		humidity range	Operating/Stored: 35 to 85% RH (No condensation)				
Standards				UL/CSA (E2166		,	
	Port size			Rc1/4, NP			
Piping		f parts in contact with fluid	Sensor pressure receiving area: Al2O3 (Alumina 96%), Piping port: C3604 (Electroless nickel plating), O-ring: FKM + Grease (1 MPa), Square ring: FKM (2, 5, 10 MPa)				
		Port size Rc1/4	184 g				
	Body	Port size NPT1/4	184 g 183 g				
	Douy	Port size G1/4					
Waight			181 g 139 g				
Weight	-	Lead wire with connector			-		
	Option	Bracket A	17.7 g				
		Bracket B		14.			
Orifice				1.2	-		
r	IO-Link type		Device				
	IO-Link ver		V1.1				
ļ		ation speed	COM2 (38.4 kbps)				
	Configurat		IODD file*5				
Communication	Minimum c	cycle time		2.3	ms		
(IO-Link mode)	Process da	ata length		Input data: 2 bytes,	Output data: 0 byte		
	On request	t data communication		Ye	es		
	Data storad	ge function		Ye	S		
	Event func	-		Ye			
	Vendor ID						
			131 (0 x 0083)				

*1 Value without digital filter (at 0 ms)

*2 If the applied pressure fluctuates around the set value, the hysteresis must be set to a value more than the amount of fluctuation, or chattering will occur. *3 Setting is only possible for models with the unit selection function. For models without this function, only MPa or kPa is available for the ISE70G/ISE75G,

and only MPa is available for the ISE76G/ISE77G. *4 The response time indicates when the set value is 90% in relation to the step input.

*5 The configuration file can be downloaded from the SMC website, http://www.smcworld.com

* Products with tiny scratches, marks, or display color or brightness variations which do not affect the performance of the product are verified as conforming products.



Set Pressure Range and Rated Pressure Range

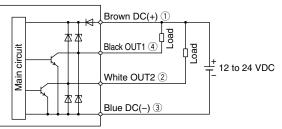
Set the pressure within the rated pressure range. The set pressure range is the range of pressure within which switch output can be set. The rated pressure range is the range of pressure that satisfies the specifications (accuracy, linearity, etc.) of the product. Although it is possible to set a value outside the rated pressure range, the specifications cannot be guaranteed even if the value stays within the set pressure range.

Switch			Pressure range						
Switch		–0.1 MPa	0	1 N	/IPa 2	MPa	5 N	/Pa 10	MPa
For 1 MPa (For air and	ISE70	–0.105 MPa	0		1 MPa				
general fluids)	ISE70G	-0.100 101 4			1.05 MPa			1 1 1	
For 1.6 MPa (For air)	ISE71	–0.105 MPa	0			MPa 58 MPa			
For 2 MPa (For general fluids)	ISE75G	–0.105 MPa	0			2 MPa 2.1 MPa			
For 5 MPa (For general fluids)	ISE76G	-0.25 MPa	0			\\ \\ \\		5 MPa 5.25 MPa	
For 10 MPa (For general fluids)	ISE77G	-0.50 MPa	0					<i>\}</i> }}	10 MPa 10.5 MPa

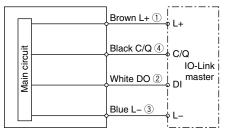
Rated pressure range of the switch Set pressure range of the switch

Internal Circuits and Wiring Examples

When used as a switch output device Setting of NPN open collector 2 outputs

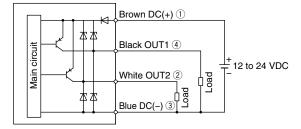


When used as an IO-Link device



 $\ast~$ The numbers in the circuit diagrams show the connector pin layout.

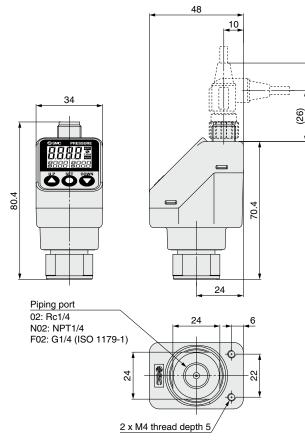
Setting of PNP open collector 2 outputs



ISE7 /7 G Series

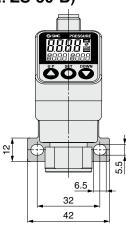
Dimensions

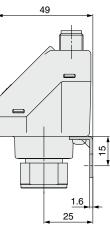
Without bracket



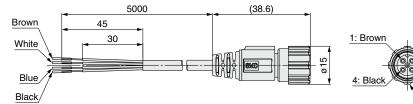
Bracket A (Interchangeable with ISE70/ISE75(H)) (Part no.: ZS-50-A) 49 3888 ÖÖČ 15 4 (11.4) 8 1.6 46 25 60 Bracket B

(Part no.: ZS-50-B)



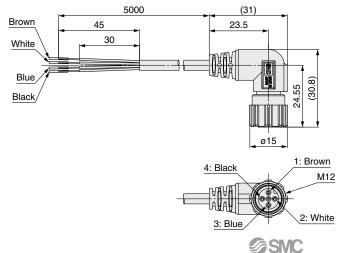


Lead wire with M12 connector (Part no.: ZS-31-B)



(40.1)

(Part no.: ZS-31-C)





2: White

When used as a switch output device

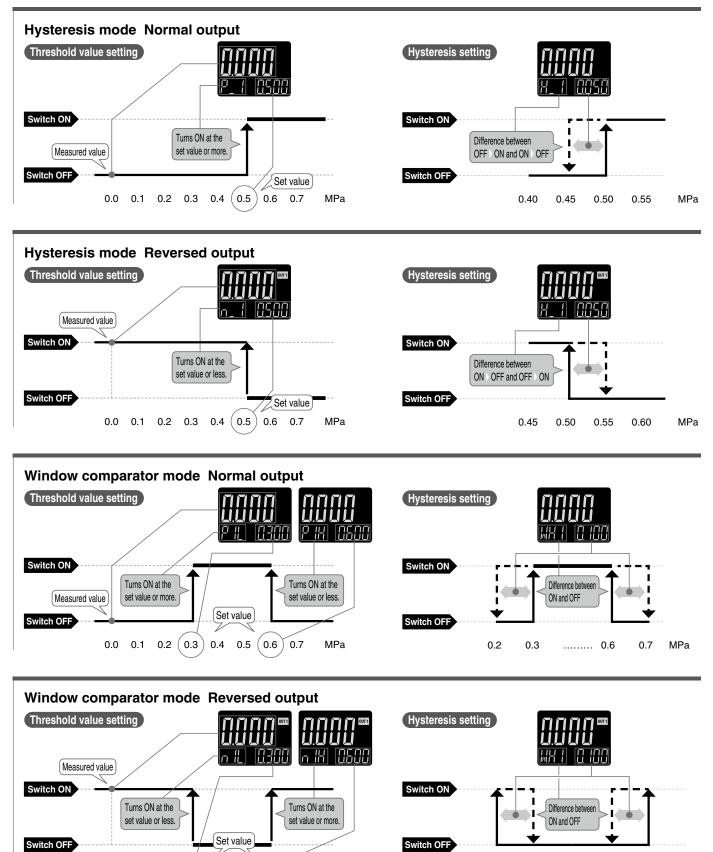
No.	Description	Lead wire color	Note					
1	DC(+)	Brown	12 to 24 VDC					
2	OUT2	White	Switch output 2					
3	DC(-)	Blue	0 V					
4	OUT1	Black	Switch output 1					

When used as an IO-Link device

When used as an IO-Link device					
No.	Description	Lead wire color	Note		
1	L+	Brown	18 to 30 VDC		
2	DO	White	Switch output 2		
3	L–	Blue	0 V		
4	C/Q	Black	Communication data (IO-Link)/ Switch output 1 (SIO)		



Display examples of the main and sub (set value) screens of each mode.



MPa

0.3

0.4

..... 0.5

0.2 (0.3

0.4 0.5

0.0 0.1

(0.6) 0.7

MPa

0.6

ISE7 /7 G Series

Function Details

A Auto-preset function (F4) * When using with IO-Link, the set values cannot be changed by communication.

Auto-preset function, when selected in the initial setting, calculates and stores the set value from the measured pressure. Using this function is possible to automatically determine the optimum set value based on the variation in measured pressure due to the repeated operation of the device.

Formula for Obtaining the Set Value

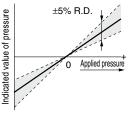
Set value (Threshold value)	Hysteresis value
$P_1(P_2) = A - (A-B)/4$	H_1(H_2) = (A-B)/2
$n_1(n_2) = B + (A-B)/4$	H_I(H_2) = (A-B)/2

A: Maximum pressure value in auto preset mode

B: Minimum pressure value in auto preset mode

B Display value fine adjustment function (F6)

Fine adjustment of the indicated value of the pressure sensor can be made within the range of $\pm 5\%$ of the read value. (The scattering of the indicated value can be eliminated.)



Indicated value at a time of shipment
 Adjustable range of display
 value fine adjustment function

 When the display value fine adjustment function is used, the set pressure value may change ±1 digit.

C Peak/Bottom value indication function

This function constantly detects and updates the maximum (minimum) pressure when the power is supplied, and allows to hold the maximum (minimum) pressure value.

The held value is maintained even if the power supply is cut.

When the SET and DOWN buttons are simultaneously pressed for 1 second or longer, while "holding", the held value will be reset.

D Keylock function

Prevents operation errors such as accidentally changing setting values.

E Zero-clear function

This function clears and resets the zero value on the display of measured pressure. The indicated value can be adjusted within $\pm 7\%$ F.S. of the

The indicated value can be adjusted within $\pm 7\%$ F.S. of the pressure at a time of shipment from the factory.

F Error display function

This function is to display error location and content when a problem or error has occurred.

Error name	Display	Description	Action	
Over current error		The load current applied to the switch output has exceeded the maximum value.	Eliminate the cause of the over current by turning off the power supply and then turn it on again.	
Residual pressure error	Er J IEro	During zero-clear operation, pressure over \pm 7% F.S. is present. Note that the mode is returned to measurement mode automatically 1 second later. The zero clear range varies by \pm 1% F.S. due to variation between individual products.	Perform zero-clear operation again after restoring the applied pressure to an atmospheric pressure condition.	
Applied pressure error	XXX	Supply pressure exceeds the maximum set pressure.	Reset applied pressure to a level within the set pressure range.	
		Supply pressure is below the minimum set pressure.		
System error	Er 0 Er 1 Er 4 Er 8 Er 6 Er 9	Internal data error	Turn the power off and then on again. If the error cannot be solved, please contact SMC for investigation.	
IO-Link master version error	Er 15	IO-Link version does not match that of the master. The master uses version 1.0.	Ensure that the master IO-Link version matches the device version.	

If the error cannot be solved after the instructions above are performed, or errors other than those above are displayed, please contact SMC for investigation.



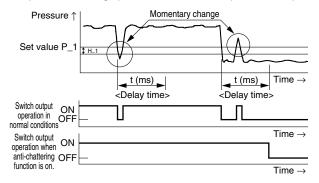
Function Details

G Anti-chattering function (Simple setting mode or F1, F2)

A function to delay the switch output response time to prevent chattering or prevent the detection of temporary changes in source pressure. For example, large bore cylinders and ejectors consume a large volume of air in operation, therefore, the source pressure may decrease temporarily. The delay time can be set in the range of 0.00 to 60.00 [s] in 0.01 [s] increments.

<Principle>

This function averages pressure values measured during the response time set by the user and then compares the average pressure value with the pressure set point value to output the result on the switch.



H Unit selection function (F0)

Display units can be switched with this function.

Model	Rated pressure	Smallest settable increment				
WOUEI	range	MPa	kPa	kgf/cm ²	bar	psi
ISE70/70G	0 to 1 MPa	0.001	1	0.01	0.01	0.1
ISE71	0 to 1.6 MPa					
ISE75G	0 to 2 MPa					0.2
ISE76G	0 to 5 MPa	0.01		0.1	0.1	4
ISE77G	SE77G 0 to 10 MPa			0.1	0.1	I

Zero cut-off setting (F14)

When the pressure display value is close to zero, this function forces the display to zero. The range to display zero can be changed within the range of 0.0 to 10.0%.

Example: When the ISE70 (1 MPa range), zero-cut value = 1.0%, 0 is displayed in the range of -9 to 9 kPa.

J Power-saving mode (F80)

Power saving mode can be selected.

It shifts to the power-saving mode without button operation for 30 seconds.

It is set to the normal mode (Power-saving mode is OFF.) at a time of shipment from the factory.

(During power-saving mode, [ECo] will flash in the sub screen and the operation light is ON (only when the switch is ON).)

K Setting of security code (F81)

Users can select whether a security code must be entered to release key lock. At a time of shipment from the factory, it is set such that the security code is not required.



▲ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "**Caution**," "**Warning**" or "**Danger**." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)^{*1}, and other safety regulations.

- Caution: indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
- Warning: Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

AWarning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalog information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

- 2. Only personnel with appropriate training should operate machinery and equipment.
 - The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.
- 3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.
 - The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.

- 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
- 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog.
- An application which could have negative effects on people, property, or animals requiring special safety analysis.
- 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

- *1) ISO 4414: Pneumatic fluid power General rules relating to systems.
 - ISO 4413: Hydraulic fluid power General rules relating to systems. IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)
 - ISO 10218-1: Manipulating industrial robots Safety. etc.

 The product is provided for use in manufacturing industries. The product herein described is basically provided for peaceful use in manufacturing industries. If considering using the product in other industries, consult SMC beforehand

and exchange specifications or a contract if necessary. If anything is unclear, contact your nearest sales branch.

Limited warranty and Disclaimer/ Compliance Requirements

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".

Read and accept them before using the product.

Limited warranty and Disclaimer

- The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first.*2) Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.
 - 2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

- The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country. Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

Revision History

Edition B * The ISE7□G for general fluids has been added. * Number of pages has been increased from 12 to 16.

WQ

A Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.