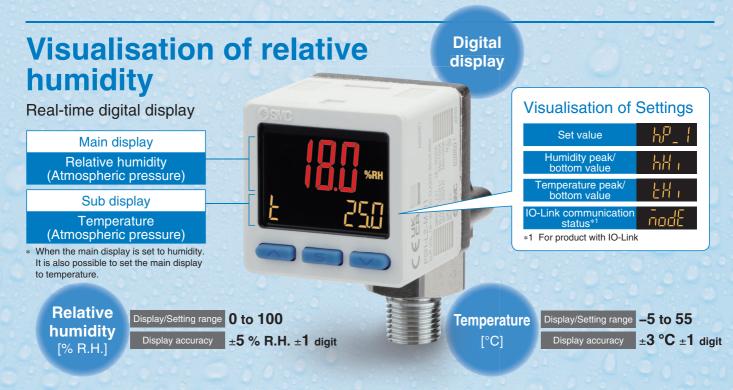
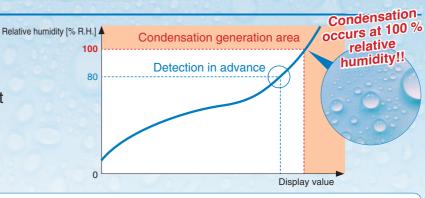
3-Screen Display Condensation Checker (도법 RoHS (Digital Temperature & Humidity Switch)



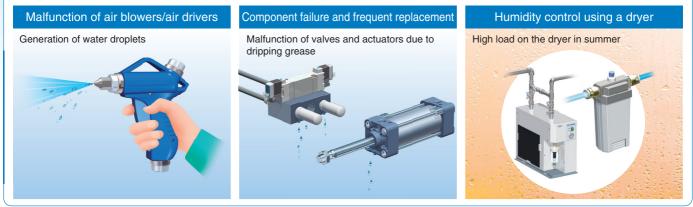
Remote/Condition^F monitoring Remote confirmation via switch output

preventing condensation problems!

PSH Series



Protect important equipment from moisture.





Condensation problem inside piping



Can be easily connected to any pipe you want to monitor Compact size allows for easy installation

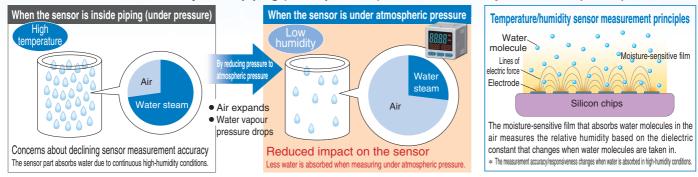
Water resistant!

Measurement with stable accuracy is possible even inside humid piping!

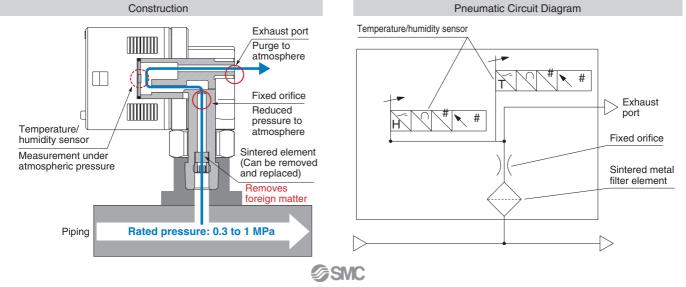
layout and replacement timing

Easy installation, Space saving

Measures the status of humidity inside piping (under pressure) as relative humidity under atmospheric pressure



* The atmospheric pressure relative humidity value displayed is lower than that of the relative humidity inside piping (under pressure). For the relative humidity conversion method, refer to "Set value (threshold value) setting" on page 3.



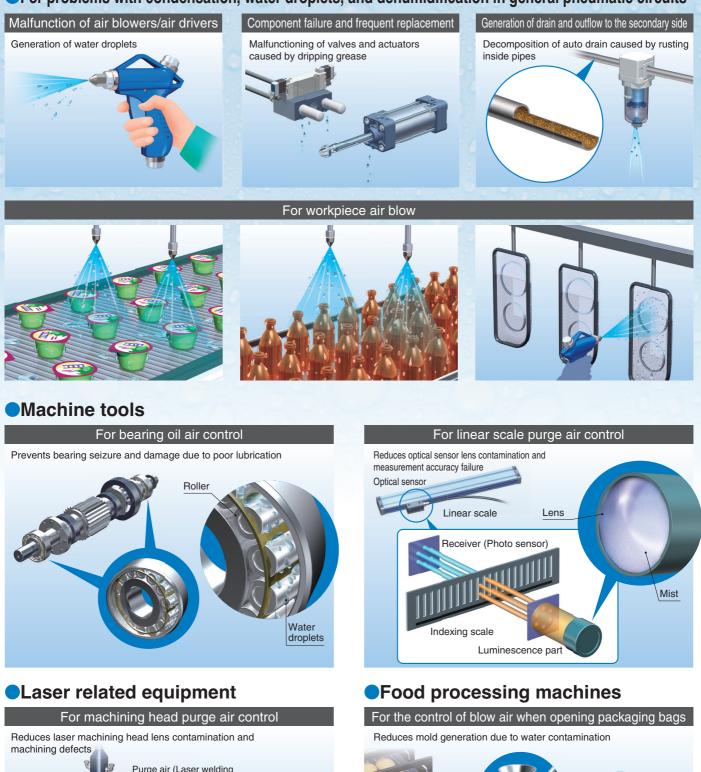
Application Example

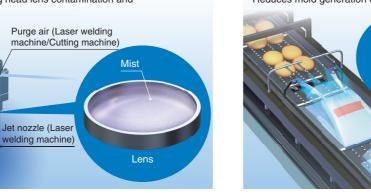
Lens A

Lens B

Lens C Lens D

For problems with condensation, water droplets, and dehumidification in general pneumatic circuits





SMC

Mold

Liquid

water

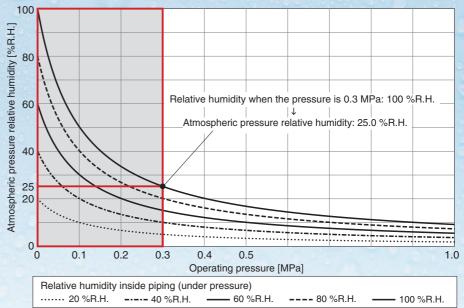
Set value (threshold value) setting

Relative humidity under pressure-atmospheric pressure relative humidity (Simple conversion tables)

The relative humidity inside piping (under pressure) and the atmospheric pressure relative humidity are different, but they can be converted as shown below. * When the temperature inside piping and the atmospheric pressure (ambient) temperature are the same

Conversion magnification list

Operating	Magnification					
pressure [MPa]	Under pressure	Atmospheric pressure				
0.3	1/4	4				
0.35	1/4.5	4.5				
0.4	1/5	5				
0.45	1/5.5	5.5				
0.5	1/6	6				
0.7	1/8	8				
0.9	1/10	10				



 For more information on the simple conversion formula, refer to the technical data on page 15.

Model Selection Software Humidity conversion/condensed water (drain) calculation software

Supports conversion related to humidity for humidity control

When the temperature inside piping differs from the atmospheric pressure (ambient) temperature

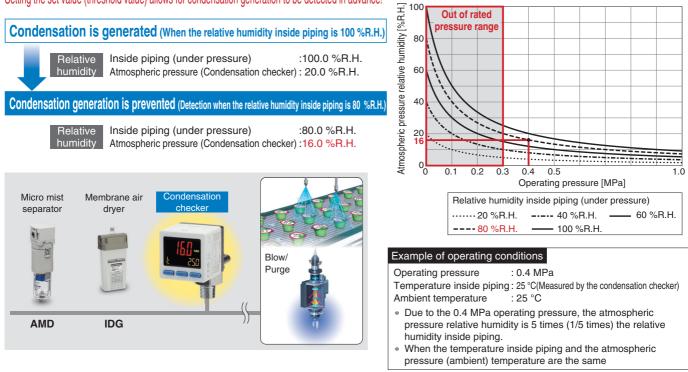
Dew point to relative humidity or relative humidity to dew point conversion

Refer to the SMC website before use.

Example of air blow/purge air humidity abnormality detection

* When releasing air blow/purge air from inside piping (under pressure) to a component (atmosphere)

Setting the set value (threshold value) allows for condensation generation to be detected in advance!



3-Screen Display Condensation Checker (Digital Temperature & Humidity Switch) PSH Series

Detection example of when the refrigerated air dryer humidity is abnormal

* When the processing capacity of the refrigerated air dryer drops

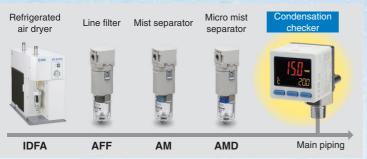
Setting the set value (threshold value) within the given range allows for the detection of abnormal conditions prior to condensation generation! Normal conditions Pressure dew point : 10 °Cdp (IDFA specification) Relative Inside piping (under pressure) :52.5 % R.H. Atmospheric pressure (Condensation checker) : 8.8 % R.H.

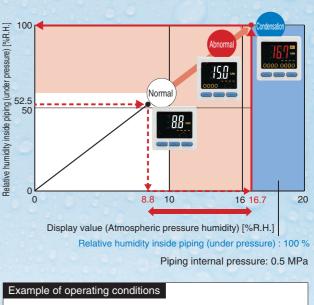
Dryer processing capacity drop

Abnormal conditions Pressure dew point: Equivalent to 20 °Cdp (Pressure dew point = ambient temperature

 Relative humidity
 Inside piping (under pressure): 100.0 %R.H. (Condensation generated)

 Atmospheric pressure (Condensation checker):
 16.7 % R.H.





Operating pressure : 0.5 MPa

Temperature inside piping : 20 $^\circ C$ (Measured by the condensation checker) Ambient temperature : 20 $^\circ C$

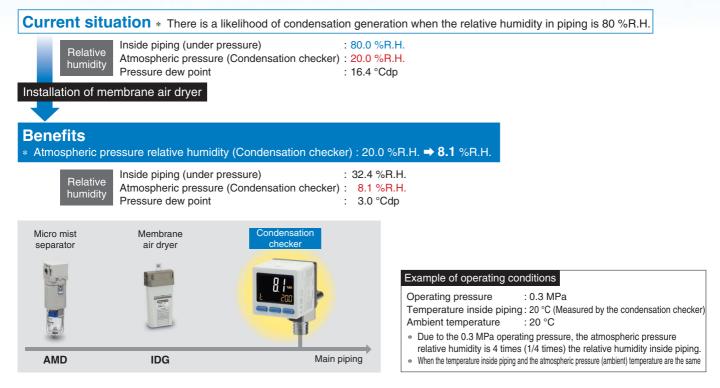
- * Due to the 0.5 MPa operating pressure, the atmospheric pressure relative humidity is 6 times (1/6 times) the relative humidity inside piping.
- $\ast~$ When the temperature inside piping and the atmospheric pressure (ambient) temperature are the same

Example of deciding to install a membrane air dryer and confirming the effectiveness

* When installing a membrane air dryer after confirming like likelihood of condensation/water droplet generation

The effectiveness of the membrane air dryer can be confirmed via the condensation checker.

(Be sure to take the pressure dew point/operating pressure and the accuracy of the condensation checker's atmospheric pressure relative humidity into consideration.)



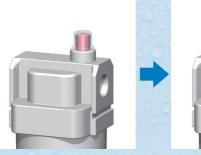
When the condensation checker's temperature differs from the condensation generation location's temperature

* For more information on calculation methods, refer to "Changes in temperature inside piping" in the technical data on page 16.



Confirmation of membrane air dryer humidity status

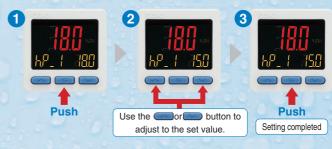
Visual confirmation Confirmation via colour Numerical confirmation Confirmation via output





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 (H_1) is being displayed, the hysteresis value can be set.



Level bar display

The level bar shows the difference from the set value. •Relative humidity inside piping (under pressure)

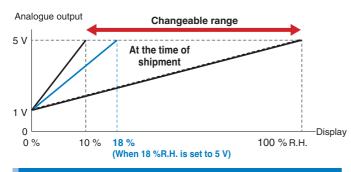
Atmospheric pressure relative humidity (Condensation checker display)

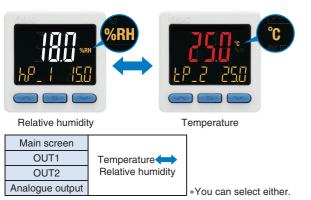


* When the piping internal pressure is 0.4 MPa, the temperature inside piping and the atmospheric pressure (ambient) temperature are set to 25 °C, and the set value (threshold value) is 90 %

Analogue free span

The analogue span point (5 V) can be set between 10 and 100 % R.H. Example For relative humidity





2-colour display type

The abnormal condition can be confirmed at a glance by the change in colour.



Output OFF (White)

Output ON (Red)

NPN/PNP switching function

A single unit supports both NPN and PNP. Therefore, the number of items to keep in stock can be reduced.

Press the "UP" or "DOWN" key to select the switch output specification.



NPN output

SMC



CONTENTS

3-Screen Display Condensation Checker

(Digital Temperature & Humidity Switch)

PSH Series



How to Order	p. 7
Accessories Part Number	p. 7
Specifications	p. 8
Settable Range	o. 10
Internal Circuits and Wiring Examples	o. 11
Dimensions	o. 12
Technical Data	o. 15
Safety Instructions Back c	over

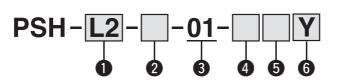
3-Screen Display

OLink CE

Condensation Checker (Digital Temperature & Humidity Switch) (Вонс)

PSH Series

How to Order





Output specification

Symbol	Description
L2	IO-Link/Switch output 1 + Switch output 2 (Switch output: NPN or PNP switching type)
RT	Switch output 1 + Switch output 2 + Analogue voltage output (Switch output: NPN or PNP switching type)

* Switch output 1/2, analogue voltage output can be set to relative humidity or temperature.

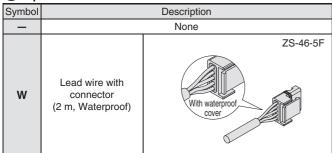
2 Units specification

Symbol	Description
-	Units selection function
М	SI units only*1

*1 Fixed units: % R.H.,°C

Other Biping specification Symbol Description 01 R1/8

4 Option 1



6 Option 3

Symbol	Description
_	Operation manual
Y	None

Accessories Part Number

When an accessory is required separately, order using the part number listed below.

Description	Part no.	Note		
Bracket	ZS-55-A	—		
Panel mount adapter	ZS-55-B	—		
Panel mount adapter + Front protection cover	ZS-55-D	_		
Lead wire with connector	ZS-46-5F	5-core, 2 m, Waterproof		
Front protection cover	ZS-35-01	—		
Sintered metal filter element	EBD-3.8-3-2	Min. purchase quantity: 10 pcs.		
Lead wire with M12 connector*1	ZS-46-5FM12			

*1 Analogue voltage output is not available.

5 Option 2 Symbol Description None ZS-55-A Α Bracket ZS-55-B r pei В Panel mount adapter ZS-55-D Panel mount adapter D + Front protection cover

Specifications

Refer to the operation manual on the SMC website for the "Specific Product Precautions."

	I	Model	PSH		
Applicable f	luid		Air, Non-corrosive gas JIS B 8392-1 1.1.2 to 1.6.2, ISO 8573-1 1.1.2 to 1.6.2		
	Rated tem	perature range	0 to 50 °C		
Temperature		d Set temperature range	−5 to 55 °C		
		d minimum settable increment	0.1 °C		
Relative	Display an	d Set relative humidity range	0 to 100 % R.H. (No condensation)		
humidity	Display an	d minimum settable increment	0.1 % R.H.		
_	Rated pres	sure range	0.3 to 1 MPa		
Pressure		pressure range	0.1 to 1 MPa		
Flow rate co			5 l/min (Pressure: 1 MPa) (Reference: Approx. 3 l/min or less at 0.3 MPa)		
		ply voltage	18 to 30 VDC (Including ripple)		
Power	Current co	nsumption	35 mA or less		
supply	Protection	•	Polarity protection		
	_	Display accuracy	±3 °C ±1 digit		
	Temperature	Analogue output accuracy*3	±3.5 °C		
Accuracy*1, *2	Relative	Display accuracy	±5 % R.H. ±1 digit*4		
	humidity	Analogue output accuracy*3	±5.5 % R.H.		
	Output typ	<u> </u>	Select from NPN or PNP open collector output.		
			Hysteresis mode, Window comparator mode, Error output		
	Output mo	de	Output OFF		
	Switch ope	eration	Normal output, Reversed output		
Switch	Max. load	current	10 mA		
output	Max. appli	ed voltage (NPN only)	30 V		
		Itage drop (Residual voltage)	1.5 V or less (at load current of 10 mA)		
		Hysteresis mode			
	Hysteresis	Window comparator mode	Variable from 0		
	Short circu	it protection	Yes		
Analogue	Output typ	•	1 to 5 V* ⁵		
output	Output imp		Approx. 1 kΩ		
Digital filter	<u> </u>		0.0 to 60.00 s (0.01 increments)*6		
	Units		°C, °F, % R.H.		
	Display typ	De	LCD		
	Number of		3-screen display (Main screen, Sub screen x 2)		
			1) Main screen: White/Red		
Display	Display co	lour	2) Sub screen: Orange		
			1) Main screen: 3 1/2 digits, 7 segments		
	Number of	display digits	2) Sub screen: 4 digits, 7 segments		
	Indicator li	ght	Light is ON when switch output is ON. OUT1, OUT2: Orange		
	Enclosure	rating	IP65		
	Withstand	-	1000 VAC for 1 min between terminals and housing		
Environmental	Insulation		$50 \text{ M}\Omega$ or more (using 500 VDC Mega) between terminals and housing		
resistance		emperature range	Operating: 0 to 50 °C, Storage: –10 to 60 °C (No condensation or freezing)		
		umidity range	Operating, Storage: 35 to 85 % R.H. (No condensation)*7		
Standards	. unsion n		CE/UKCA (EMC and RoHS directive)		

*1 This is the overall accuracy, including the effects of factors such as temperature and repetition.

*2 Applicable only when using within the rated pressure range.

*3 When using a product with an analogue output function. Select temperature or relative humidity using the settings.

*4 When using within the rated pressure range. The range in which relative humidity can change under atmospheric pressure changes depending on the operating pressure.

For details, refer to page 10. If the product is used outside the rated pressure range, the accuracy is not guaranteed.

*5 Relative humidity: 1 to 5 V output for 0 to 100 % R.H. Temperature: 1 to 5 V output for 0 to 50 °C.

 $\ast 6~$ This is the 90 % response time to a step input in the internal sensor signal.

*7 Do not store in airtight conditions without air exchange.

* If the piping contains gases such as oil mist or organic solvents, it may not be possible to meet the specified accuracy or it may cause a malfunction.

* Although SMC strive to improve quality, products are considered to be of good quality if there are slight scratches, dirt, display colour, uneven brightness, etc. on the exterior that do not affect the performance.

PSH Series

Specifications

Piping Specifications and Weights

	Model	PSH		
Port size		R1/8		
	Sensor pressure receiving area	Silicon, etc.		
Materials in contact with		SUS303, CAC403, C3604 (Electroless nickel plating), ZDC2 (Nickel plating)		
fluid	Piping port	Glass-fibre epoxy resin		
		O-ring: EPDM, FKM		
Weight	Body	103 g		
weight	Lead wire with connector	+39 g		

Cable Specifications

Conductor cros	ss section	0.15 mm ² (AWG26)	
Inculator	Outside diameter	1.0 mm	
Insulator	Colour	Brown, Blue, Black, White, Grey (5-core)	
Sheath	Outside diameter	Ø 3.5	

Communication Specifications (For IO-Link)

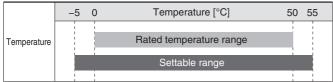
IO Link tune						Dev	ine						
IO-Link type	Device												
IO-Link version	V1.1												
Communication speed					C	COM2 (38	8.4 kbp	os)					
Configuration file						IODD	file*1						
Minimum cycle time						3.8	ms						
Process data length				Inp	ut data: 6	6 bytes, 0	Output	data:	0 by	tes			
On request data communication						Supp	orted						
Data storage function						Supp	orted						
Event function						Supp	orted						
Vendor ID						131 (0 >	(0083))					
Device ID					PSH-L2	(-M)-*: 6	50 (0 x	0002	28A)				
	Bit					4	4732						
	Item Relative humidity measurement value (16-bit signed integer)												
	Bit 3116												
Process data	Item Temperature measurement value (16-bit signed integer)												
	Bit	15	14	13	10 to 12	9	8 7	6	5 4	3	2	1	0
	Item	System error diagnostic	Error diagnostic	Fixed output	0	Temperature diagnostic		0		Temperature SW2	Temperature SW1	Relative humidity SW2	Relative humidity SW1

*1 The configuration file can be downloaded from the SMC website, https://www.smc.eu

Settable Range

The settable range is the range within which the switch output can be set.

Settable Temperature Range



Settable Relative Humidity Range



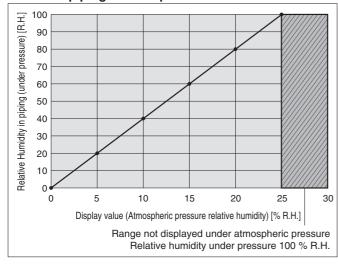
The range of atmospheric pressure and relative humidity that the condensation checker can measure changes depending on the pressure inside the piping (under pressure). For example, if the pressure inside the pipe (under pressure) is 0.3 MPa and the relative humidity is 100 % (maximum value), the atmospheric pressure relative humidity when released into the atmosphere will be 25.0 % R.H..

If the pressure inside the pipe (under pressure) is 0.3 MPa, the measurable range of the condensation checker is 25.0 %R.H.. Atmospheric pressure relative humidity ±5 % is guaranteed only when used within the rated pressure range (0.3 to 1.0 MPa).

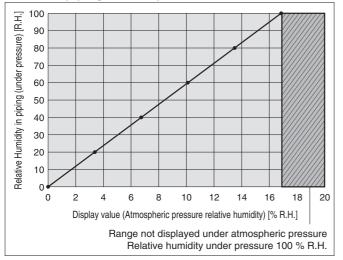
Relationship between displayed value (atmospheric pressure relative humidity) and relative humidity inside piping (under pressure) * When the temperature inside piping and the atmospheric pressure (ambient) temperature are the same

SMC

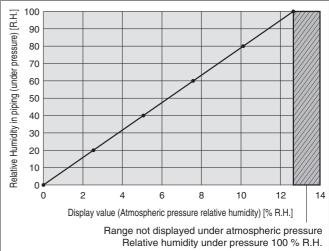
When the piping internal pressure is 0.3 MPa



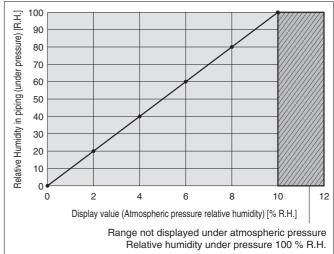
When the piping internal pressure is 0.5 MPa



When the piping internal pressure is 0.7 MPa





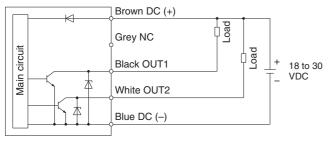


PSH Series

Internal Circuits and Wiring Examples

-L2: IO-Link/Switch output 1 + Switch output 2 When used as a switch output device

Setting of NPN open collector 2 outputs

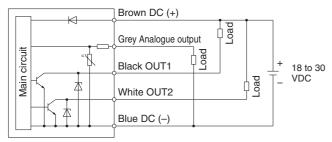


When used as an IO-Link device

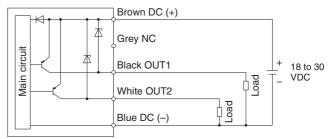
		Brown L+ ①	γL+
nit	C	Grey NC	IO-Link master
circ		Black C/Q ④	∮ C/Q
Main circuit		White DO ②	ο DI
		Blue L- 3	ΫL-

Switch output 1 & 2 + Analogue voltage output

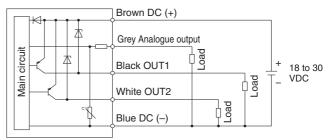
NPN setting



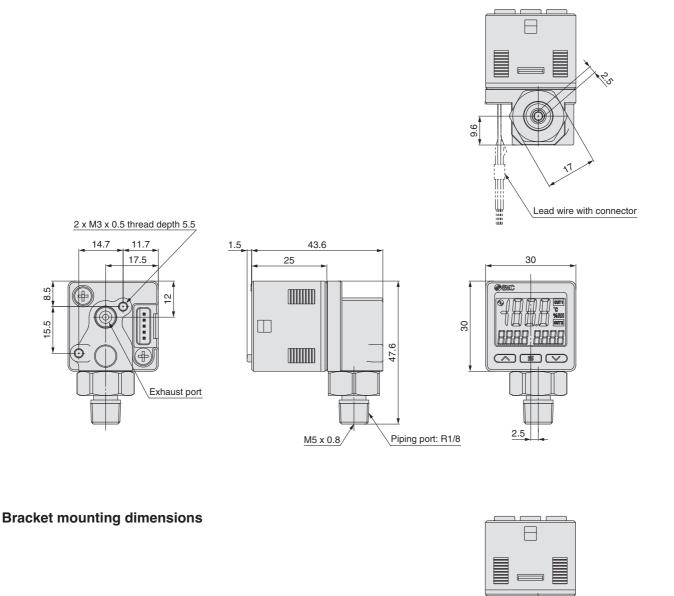
Setting of PNP open collector 2 outputs

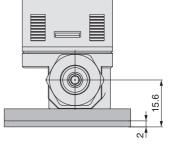


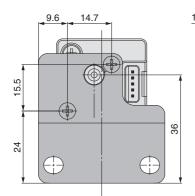
PNP setting

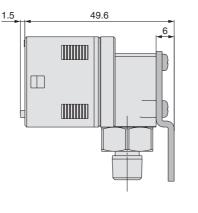


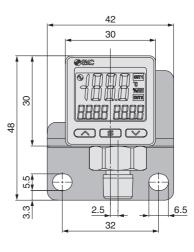
Dimensions





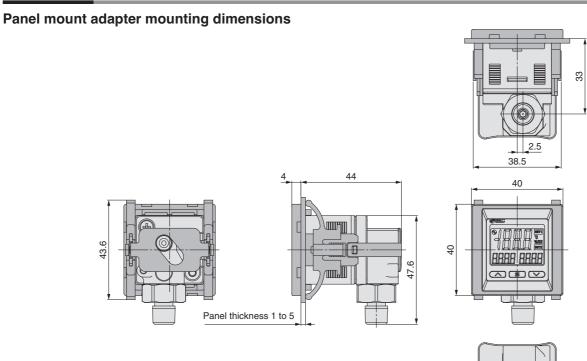




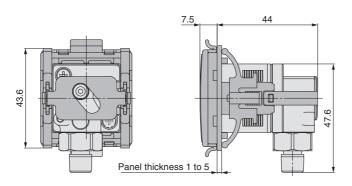


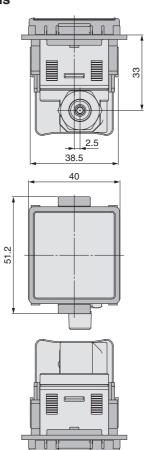
PSH Series

Dimensions

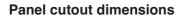


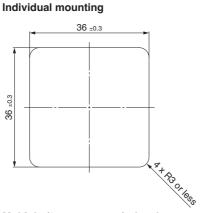
Panel mount adapter + front protection cover mounting dimensions



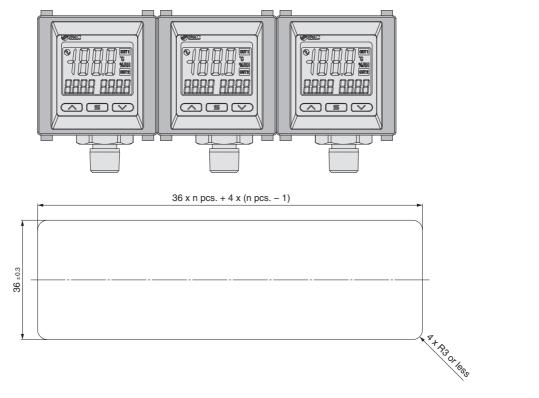


Dimensions

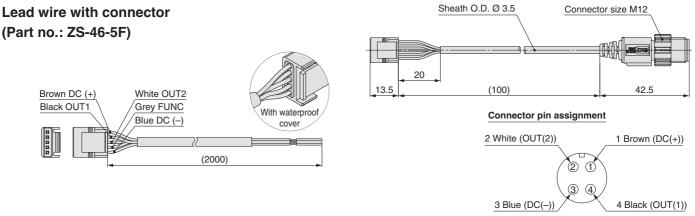




Multiple (2 pcs. or more) closely mounted <Horizontal>



Lead wire with M12 connector (Option: Single unit model: ZS-46-5FM12)

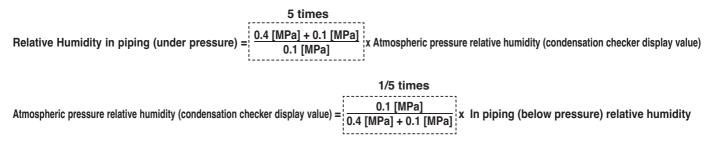


PSH Series Technical Data

Relative Humidity in Piping (under pressure) \Leftrightarrow Atmospheric Pressure Relative Humidity (condensation checker display) Simple Conversion Formula

Relative Humidity is proportional to operating pressure at constant temperature. Relative Humidity conversion guideline for inside piping (under pressure): It is possible to calculate from the condensation checker display value using the following multiplier. For 0.3 MPa \Rightarrow 4 times, For 0.5 MPa \Rightarrow 6 times, For 0.7 MPa \Rightarrow 8 times, For 0.9 MPa \Rightarrow 10 times.

When the operating pressure is 0.4 MPa



Model Selection Software Setting Examples

Model Selection Software Humidity conversion/condensed water (drain) calculation software

Supports conversion related to humidity for humidity control

•When the temperature inside piping and the atmospheric pressure (ambient) temperature are different

Dew point to relative humidity or relative humidity to dew point conversion

To determine the threshold value of the condensation checker

* When the temperature inside piping and the atmospheric pressure (ambient) temperature are the same

Calculation of the relative humidity inside piping (under pressure) = atmospheric pressure relative humidity

Status 1

Input the status under pressure.

➡Relative humidity, pressure, and temperature under pressure

Status 2

Input the status detected by the condensation checker.

Atmospheric pressure (0 MPa), temperature (Same temperature as in Status 1)

To calculate the relative humidity inside piping (under pressure) from the condensation checker display value

Refer to the SMC website before use.

Calculation of the atmospheric pressure relative humidity => relative humidity inside piping (under pressure)

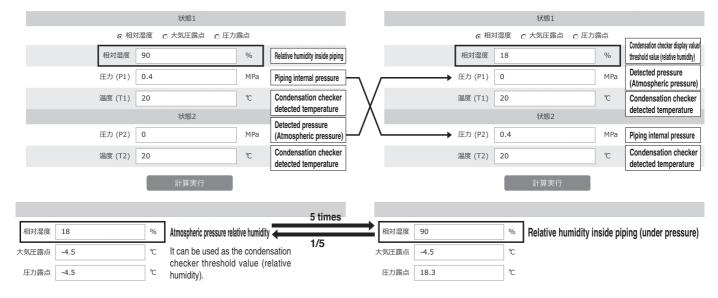
Status 1

Input the status detected by the condensation checker.

Condensation checker display value/threshold value (relative humidity), atmospheric pressure (0 MPa), temperature

Status 2

Input the status under pressure. →Relative humidity, pressure, and temperature under pressure (Same temperature as in Status 1)

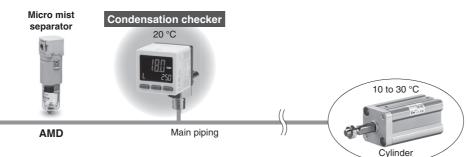


When the temperature inside piping changes

The relative humidity changes according to the temperature. If the temperature inside piping changes due to the distance from the monitoring point, the relative humidity can be calculated using SMC's "Model Selection Software."

Example: To confirm the conditions on a cold day when water droplets are often generated by the cylinder

* The condensation checker cannot be installed close to a cylinder, so it is installed at a distance.



Example of operating conditions

Operating pressure : 0.3 MPa

Temperature inside piping: 20 °C (Condensation checker display value) Temperature inside piping near cylinder: 10 °C

Atmospheric pressure relative humidity inside piping: 12 % (Condensation checker display value)

			状態1		
Condensation checker	り露点	o 圧力	O 大気圧露点	対湿度	⊙相3
detected relative humidity	%			12	相対湿度
Condensation checker detected pressure (Atmospheric pressure)	MPa			0	圧力 (P1)
Condensation checker detected temperature	°C			20	温度 (T1)
L			状態2		
Operating pressure	MPa			0.3	圧力 (P2)
Temperature inside piping near cylinder	°C			10	温度 (T2)
			計算実行		

状態1					
Condensation checker	露点	O 圧力	O 大気圧露点	付湿度	⊙相3
detected relative humidity	%			12	相対湿度
Condensation checker detected pressure (Atmospheric pressure)	МРа			0	圧力 (P1)
Condensation checker	°C			20	温度 (T1)
detected temperature			状態2		
Operating pressure	MPa			0.3	圧力 (P2)
Temperature inside piping near cylinder	°C			30	温度 (T2)
			計算実行		

When the temperature rises in the conditions shown on the left

humidity inside piping can be calculated as follows.

(Measure the temperature as required.)

When the temperature near the cylinder rises to 30 °C, the relative

	相対湿度	91.4	%
大気圧露点		-9.1	°C
圧力露点		8.7	°C

Inside piping at the end (under pressure) Relative humidity: 91.4 %R.H.

% Inside piping at t Relative humidity	26.4	相対湿度
°℃	-9.1	大気圧露点
C	8.7	圧力露点

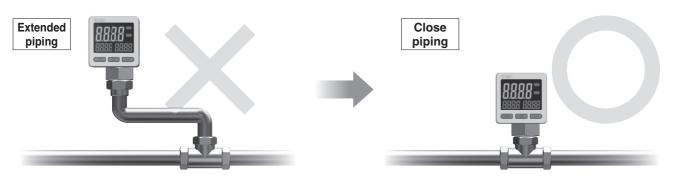
Inside piping at the end (under pressure) Relative humidity: 26.4 %R.H.

ACaution

Condensation Checker precautions

Do not separate the condensation checker from the fluid to be measured.

* Measurement accuracy and responsiveness performance will be reduced.



If the product is separated from the original piping, accurate measurements will no longer be possible due to external disturbances such as temperature variation in the extended piping. In addition, increasing the distance from the original piping slows down the temperature transmission and the response. Direct mounting to the piping is recommended.



\wedge	▲ Safety Instructions		damage. These instructi	s are intended to prevent hazardous situations and/or equipment ons indicate the level of potential hazard with the labels of
			, 0	or "Danger." They are all important notes for safety and must be ternational Standards (ISO/IEC) ¹⁾ , and other safety regulations.
	Danger:	Danger indicates a hazard wit which, if not avoided, will resul injury.	0	 ISO 4414: Pneumatic fluid power – General rules and safety requirements for systems and their components. ISO 4413: Hydraulic fluid power – General rules and safety requirements for systems and their components.
\wedge	Warning:	Warning indicates a hazard w which, if not avoided, could re- injury.		IEC 60204-1: Safety of machinery – Electrical equipment of machines (Part 1: General requirements) ISO 10218-1: Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots.
	Caution:	Caution indicates a hazard wi which, if not avoided, could re-		etc.

∧ Warning

injury.

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 catalogue 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.
 - 1. 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. Our products cannot be used beyond their specifications. Our products are not developed, designed, and manufactured to be used under the following conditions or environments. Use under such conditions or environments is not covered.

- 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
- 2. Use for nuclear power, railways, aviation, space equipment, ships, vehicles, military application, equipment affecting human life, body, and property, fuel equipment, entertainment equipment, emergency shut-off circuits, press clutches, brake circuits, safety equipment, etc., and use for applications that do not conform to standard specifications such as catalogues and operation manuals.
- 3. Use for interlock circuits, except for use with double interlock such as installing a mechanical protection function in case of failure. Please periodically inspect the product to confirm that the product is operating properly.

∧ Caution

We develop, design, and manufacture our products to be used for automatic control equipment, and provide them for peaceful use in manufacturing industries. Use in non-manufacturing industries is not covered.

Products we manufacture and sell cannot be used for the purpose of transactions or certification specified in the Measurement Act.

The new Measurement Act prohibits use of any unit other than SI units in Japan.

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

- 1. 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.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue 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

- 1. 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.

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