New Electro-pneumatic Regulator Integrated Type CE 64-station Compatible Manifold RoHS Plug-in Compact 5-Port Solenoid Valve

Solenoid valves and electro-pneumatic regulators can be connected to the same manifold.

Valve stations/Number of outputs: For 4 to 64 stations^{*1}/128 points

Stations are only available in multiples of 4

Electro-pneumatic regulator stations: 1 to 4 stations I/O unit stations: Max. 8 stations

Compatible protocol: **BROOT** EtherNet/IP EtherCAT



CAT.ES11-120A

Electro-pneumatic Regulator Integrated Type 64-station Compatible Manifold Plug-in Compact 5-Port Solenoid Valve JSY3000-P Series

Equipment integration allows for the centralized management



Max. 4 stations

For the electro-pneumatic regulators, select from **1** individual output of regulated air and **2** solenoid valve supply pressure control



Electro-pneumatic Regulator Integrated Type 64-station Compatible Manifold Plug-in Compact 5-Port Solenoid Valve JSY3000-P Series

of control and wiring as well as reduced wiring



Drive control

(JSY3000 Solenoid valve zone) Max. 64 stations

When **1** individual output of regulated air (direct output type) is selected for the electro-pneumatic regulators



When 2 solenoid valve supply pressure control (valve supply type) is selected for the electro-pneumatic regulators



CONTENTS

Electro-pneumatic Regulator Integrated Type 64-station Compatible Manifold Plug-in Compact 5-Port Solenoid Valve JSY3000-P series

Plug-in Connector Connecting Base	
Manifold Specifications	р. З
Manifold Flow Rate Characteristics	р. З
Electro-Pneumatic Regulator for Manifold	p. 4
How to Order Manifolds	р. 6
How to Order Manifold Assembly	p. 7

How to Order Valves (With mounting screw)	р.7
How to Order Electro-Pneumatic Regulators for Ma	nifold
(With mounting screw)	р. 8
Dimensions	р. 9
Fieldbus System for Manifold	p. 10
Manifold Options	p. 13



JSY3000-P Series Type 10 Plug-in Connector Connecting Base

Manifold Specifications

Wiring		Serial wiring EX600 for 64-station compatible manifold	
Manifold type		Plug-in connector connecting base (64-station compatible manifold)	
SUP/EXH port	Common SUP/EXH (Common for the 3/5		
Valve stations		4 to 64 stations	
Applicable con	nector	—	
Internal wiring		Negative common	
Port size 1(P), 3/5(E) port		ø10 One-touch fitting	
4(A), 2(B) port		ø4/ø6/ø8 One-touch fitting	
Enclosure (Bas	ed on IEC 60529)	IP65	

Formula for 64-station Compatible Manifold Weight*2

(Unit: g)

W = 47 x n1 + 852 + 138 x n2 + 535 x n3 + 676 x n4

n1: Number of valve stations*1

n2: Number of intermediate SUP/EXH blocks

n3: Number of electro-pneumatic regulators, ITV2340-□A

n4: Number of electro-pneumatic regulators, ITV2340- \Box (M, S)

*1 Stations are only available in multiples of 4, from 4 stations to 64 stations.

*2 Weight: "W" is the value for the internal pilot specification, the max. fitting size, and the manifold only. The valve weight is not included. To obtain the weight with valves mounted, add the valve weight given in the Web Catalog for the appropriate number of stations.

Manifold Flow Rate Characteristics

	Port size		Valve flow rate characteristics			
Model	1, 3/5	1, 3/5 4, 2 $1 \rightarrow 4/2 (P \rightarrow A/B)$		$4/2 \rightarrow 3/5 (A/B \rightarrow E)$		
	(P, E)	(P, E) (A, B)	C [dm ³ /(s·bar)]	b	C [dm ³ /(s·bar)]	b
JJ5SY3-P10 (Side ported)	C10	C8	2.23	0.30	2.77	0.27

* Calculation of effective area "S" and sonic conductance "C": S = 5.0 x C

* Values measured in accordance with ISO 6358:1989, JIS B 8390:2000

▲Caution

Securing the DIN Rail Mounting Type Manifold

1. When mounting the manifold to a DIN rail using bolts, be sure that the bottom surface of the DIN rail is in contact with the manifold installation surface (in a horizontal state), then secure both ends of the DIN rail with the bolts. However, for other mounting methods or for side facing or upside down orientations, use the formula below to calculate the number of bolts to use at even intervals along the DIN rail.

Formula: Number of bolts = DIN rail length/75 (Round up to the nearest whole number) Example) When the DIN rail length is 1123 mm, secure in 15 locations as a guide.

2. When using the manifold with a DIN rail in an environment where any vibration or impact is applied to it, the DIN rail itself may break. In particular, if the installation surface vibrates when mounting the manifold on the wall, or if a load is directly applied to the manifold, the DIN rail may break, causing the manifold to drop. When any vibration, impact, or load will be applied to the manifold, be sure to use a direct mounting manifold.

JSY3000-P series Electro-Pneumatic Regulator for Manifold

Valve supply type



ITV2340-1□A



ITV2340-1 M-



ITV2340-1 S-

Direct output type

ITV2340-2⊟A



ITV2340-2□M-□



ITV2340-2□S-□

Specifications

Electro-Pneumatic Regulator*1

	rneumatic	negulator				
Fluid			Air			
Pressure display unit		MPa	bar	psi		
Min. sup	ply pressure	Set pressure + 0.05 MPa	Set pressure + 0.5 bar	Set pressure + 7.25 psi		
Max. su	oply pressure	1.0 MPa	10 bar	145 psi		
Set pressu	re range (Rated)*2	0 to 0.7 MPa	0 to 7 bar	0 to 100 psi		
Min. set	pressure	0.005 MPa	0.05 bar	1 psi		
Power	Voltage	24 VDC ±10% (Stabilize	ed power supply with a ri	ipple rate of 1% or less)		
supply	Current consumption		0.12 A or less			
Linearity	/ ^{*3}	±0.009 MPa or less	±0.09 bar or less	±1.3 psi or less		
Hystere	sis ^{*3}	0.0045 MPa or less	0.045 bar or less	0.65 psi or less		
Repeatability*3 ±0.0045 MPa or less ±0.045 bar or less			± 0.65 psi or less			
Sensitiv	ity	±0.2% F.S. (Input signal variation: 8/4095 (12 bit) or more				
Temperatu	re characteristics	±0.00108 MPa/°C or less	±0.0108 bar/°C or less	±0.156 psi/°C or less		
Step res	ponse*4	0.3 s or less				
	Display type	3-digit, 7-s	egment LED, 1-color dis	play (Red)		
Output pressure display*5	Accuracy	±0.018 MPa ±1 digit or less	±0.18 bar ±1 digit or less	±3 psi ±1 digit or less		
alopiaj	Min. unit	0.001 (Actual display: .001)	0.01	1		
Ambient tempera	t and fluid tures	0 to 50°C (No condensation)				
Enclosu	re	IP65				
Weight		ITV2340-□□A: 535 g (Without tie-rod) ITV2340-□□ (M, S): 676 g (Without tie-rod)				

*1 This specification table shows the characteristics at a power supply voltage of 24 VDC, ambient temperature of 25 \pm 3°C, and no load applied.

Only in static conditions, the pressure may fluctuate when air is consumed on the output side. *2 When the input signal is 0%, there is residual pressure equal to or less than the minimum set pressure.

In cases where the pressure needs to be reduced completely to 0, install a 3-port valve, etc., on the output side to discharge the residual pressure.

- *3 Compliant with ISO 10094
- *4 This is the characteristics to reach 90% of the set pressure when the step amount are $[0 \rightarrow 100\%]$, $[25 \rightarrow 75\%]$, and $[45 \rightarrow 55\%]$ under the max. supply pressure conditions.
- *5 The zero/span adjustment values are set by the minimum unit of the output pressure display. Note that the unit cannot be changed.

JSY3000-P:ITV Series

Compliant with ISO 10094









Flow Rate Characteristics Supply pressure: 1.0 MPa



Repeatability



Relief Characteristics Back pressure: 1.0 MPa



When the number of electro-pneumatic regulator stations is 3 or more, use a P, E port entry provided on "Both sides."

Excessive back pressure may damage the product.

Response Characteristics

 $(0 \rightarrow 0.7 \text{ MPa/0} \rightarrow 100\%)~$ Supply pressure: 1.0 MPa





Response Characteristics

 $(0.175 \rightarrow 0.525 \text{ MPa/}25 \rightarrow 75\%)~$ Supply pressure: 1.0 MPa



Power supply voltage: 24 VDC, Ambient temperature: $25 \pm 3^{\circ}$ C, With no load on the outlet side

Response Characteristics

 $(0.315 \rightarrow 0.385 \text{ MPa/45} \rightarrow 55\%)$ Supply pressure: 1.0 MPa



Power supply voltage: 24 VDC, Ambient temperature: $25 \pm 3^{\circ}$ C, With no load on the outlet side



Type 10 Side Ported

64-station Compatible Manifold Plug-in Connector Connecting Base Ex600 JSY3000-P Series (E UK RoHS)

Internal Pilot

How to Order Manifolds

Only the dedicated SI unit can be mounted on the 64-station compatible manifold.



Electro-pneumatic regulator integrated-type manifold identification symbol

SI unit

0	Without SI unit
F	PROFINET
E	EtherNet/IP™
D	EtherCAT

* I/O unit cannot be mounted without SI unit.

 SI units, I/O units, and valve plates are shipped together with the product but do not come assembled.

4 Valve stations

Symbol	Stations	Note
04	4 stations	
08	8 stations	
:	÷	Double wiring*1
60	60 stations	
64	64 stations	

*1 Double wiring: 2-position single, 2-position double, 3-position, and 4-position valves can be used on all manifold stations. The use of a single solenoid will result in an unused control signal.

This also includes the number of blanking plates.

- For stations, only multiples of 4, from 4 stations to 64 stations, can be selected.
 The 4 boards inside the manifold are integrated.
- * The ITV is not included in the number of valve stations. Max. 4 sets are supported.

8 Mounting and option

Symbol	Mounting		
Nil	Direct mounting		
D	DIN rail mounting (With DIN rail)		
D0	DIN rail mounting (Without DIN rail)		

- Option "D" with DIN rail mounting is not compatible with the product without an SI unit.
- Specify the DIN rail on the manifold specification sheet separately.

2 End plate (SI unit)

Nil	Without SI unit		
4	M12 power supply connector, B-coded (EX600-ED2)		
5	7/8 inch power supply connector (EX600-ED3)		
7	M12 power supply connector	Pin arrangement 1 (EX600-ED4)	
9	IN/OUT, A-coded	Pin arrangement 2 (EX600-ED5)	

* When not selecting an SI unit, the symbol will be "nil."

3 I/O unit stations

C8

Nil	None
1	1 station
:	:
8	8 stations

* When not selecting an SI unit, the symbol will be "nil."

 SI unit is not included in I/O unit stations.
 When I/O unit is selected, it is shipped separately, and assembled by the customer. Refer to the attached operation manual for mounting.

b P, E port entry, SUP/EXH block assembly, Intermediate SUP/EXH block

P, E port entry	Internal pilot	Internal pilot, Built-in silencer	External pilot (Made to order)
U side (4 to 8 stations)	U	С	G
D side (4 to 8 stations)	D	E	Н
Both sides (4 to 64 stations)	В	F	J

Ensure a match with the common specification of the valve to be used.

When not selecting an SI unit, the symbol will be "nil."

6 Number of intermediate SUP/EXH blocks, mounting position

Symbol	Qty.	Mounting position
0	0	_
1	1	Specify the mounting position
:	:	on the manifold specification
6	6	sheet.

* A block can be installed for every 4 valve stations, but as a guideline, it is recommended that one be installed for every 8 to 12 stations.

Port size

Symbol	A, B port	P, E port
C4	Straight ø4	
C6	Straight ø6	Straight ø10
C8	Straight ø8	
CM *1	Straight port, mixed sizes	

*1 Indicate the sizes on the manifold specification sheet for "CM."

For details on the EX600 Integrated Type (For Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 8. Please download the Operation Manual via the SMC website: https://www.smcworld.com



How to Order Manifold Assembly



SMC

If the product is to be continuously energized, please be sure to select the power-saving circuit (continuous duty type) specification.

* Refer to the "With power-saving circuit" section in the "Specific Product Precautions" of the plugin type JSY series **Web Catalog** for details.



64-station Compatible Manifold **JSY3000-P** Series

How to Order Electro-Pneumatic Regulators for Manifold (With mounting screw) Valve supply type Direct output type ITV2340-Δ Output type Pressure display unit Valve supply type Nil MPa 1 Direct output type 2 3 bar **∆***1 psi This product is for overseas use *1 only according to the New Measurement Act. (The SI unit ITV2340-1 A ITV2340-2 A type is provided for use in Japan.) Valve supply type Direct output type ITV2340-1 Μ Mounting and option Output type Valve supply type Nil 1 Direct mounting 2 Direct output type D0 DIN rail mounting R port Pressure display unit Intermediate SUP/EXH block ITV2340-2 M-ITV2340-1 M-Nil MPa М P, R: ø10 3 bar S P: ø10, R: Built-in silencer **4***2 psi *2 This product is for overseas use only according to the New Measurement Act. (The SI unit type is provided for use in Japan.)

ITV2340-1□S-□

ITV2340-2 S-

Silencer



- L6: 11.5 x n6 + 41.4 x n4 + 64.4 x n5 + 33.2 L7: 11.5 x n7 + 64.4 x n5 + 23
- L8: 47 x n2 + 83.8

9

- n1: Number of valve stations
- n2: Number of I/O units
- n3: Number of intermediate SUP/EXH blocks
- n4: Number of electro-pneumatic regulators (Without intermediate SUP/EXH block)
- n5: Number of electro-pneumatic regulators (With intermediate SUP/EXH block)
- n6: Number of valves from the D side to the first intermediate SUP/EXH block
- n7: Number of valves between the intermediate SUP/EXH blocks

JSY3000-P series (Є СА сЯЦия Rolls Fieldbus System for Manifold



Specifications

SI Unit (For the Electro-Pneumatic Regulator/Manifold Type) PROFINET

Model		EX600-MPN1	
	Protocol	PROFINET IO (Conformance Class C)	
	Communication speed	100 Mbps	
	Configuration file*1	GSDML file	
Communication		Fast Start up	
	Applicable function	MRP	
	Applicable function	System Redundancy S2	
		Web server	
Internal current consumption (Power supply for control/input)		0.17 A or less	
Output Electro-pneumatic regulator for manifold		Up to 4 units	
Standards		CE/UKCA marking, UL (CSA)	
Weight		310 g	
	Operating temperature range	Operating: -10 to +50°C, Stored: -20 to +60°C	
Environmental resistance	Operating humidity range	35 to 85% RH (No condensation)	
	Withstand voltage	500 VAC for 1 minute between external terminals and FE	
	Insulation resistance	500 VDC, 10 $M\Omega$ or more between external terminals and FE	

SI Unit (For the Electro-Pneumatic Regulator/Manifold Type) EtherNet/IPTM

Model		EX600-MEN1	
	Protocol	EtherNet/IP [™] (Conformance version: Composite19)	
	Communication speed	10/100 Mbps	
Communication	Configuration file*1	EDS file	
Communication		QuickConnect TM	
	Applicable function	DLR	
		Web server	
Internal current consumption (Power supply for control/input)		0.17 A or less	
Output Electro-pneumatic regulator for manifold		Up to 4 units	
Standards		CE/UKCA marking, UL (CSA)	
Weight		310 g	
	Operating temperature range	Operating: -10 to +50°C, Stored: -20 to +60°C	
Environmental	Operating humidity range	35 to 85% RH (No condensation)	
resistance	Withstand voltage	500 VAC for 1 minute between external terminals and FE	
	Insulation resistance	500 VDC, 10 $\text{M}\Omega$ or more between external terminals and FE	

*1 The configuration file can be downloaded from the SMC website: https://www.smcworld.com

SI Unit (For the Electro-Pneumatic Regulator/Manifold Type) EtherCAT

Model		EX600-MEC1	
	Protocol	EtherCAT (Conformance Test Record V2.4.0)	
Communication	Communication speed	100 Mbps	
Communication	Configuration file*1	XML file	
	Applicable function	Web server	
Internal current consu	mption (Power supply for control/input)	0.17 A or less	
Output	Electro-pneumatic regulator for manifold	Up to 4 units	
Standards		CE/UKCA marking, UL (CSA)	
Weight		310 g	
	Operating temperature range	Operating: -10 to +50°C, Stored: -20 to +60°C	
Environmental	Operating humidity range	35 to 85% RH (No condensation)	
resistance	Withstand voltage	500 VAC for 1 minute between external terminals and FE	
	Insulation resistance	500 VDC, 10 $M\Omega$ or more between external terminals and FE	

*1 The configuration file can be downloaded from the SMC website: https://www.smcworld.com



Dimensions

SI unit

EX600-MPN1 EX600-MEN1 EX600-MEC1







■Trademark EtherNet/IP[®] is a registered trademark of ODVA, Inc. EtherCAT[®] is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany. QuickConnect[™] is a trademark of ODVA



Manifold Parts Nos.

EX600 digital input unit

EX600 – DX P B

Input type		
Symbol	Description	
Ρ	PNP	
N	NPN	

Number of inputs, open-circuit detection, and connector					
Symbol	Number of inputs	Open-circuit detection	Connector		
В	8	No	M12 connector (5 pins) 4 pcs.		
С	8	No	M8 connector (3 pins) 8 pcs.		
C1	C1 8 Yes D 16 No		M8 connector (3 pins) 8 pcs.		
D			M12 connector (5 pins) 8 pcs.		
E	16	No	D-sub connector (25 pins)		
F	16	No	Spring type terminal block (32 pins)		

EX600 digital output unit EX600 – DY P B

Output type Symbol Description PNP

NPN

Symbol	Number of outputs	Connector	
В	8	M12 connector (5 pins) 4 pcs.	
E	16	D-sub connector (25 pins)	
F	16	Spring type terminal block (32 pins)	

EX600 digital input/output unit EX600 – DM P E

Symbol Number of Ε

F

8

8

Input/Output type

P

Ν

Symbol	Description	
P	PNP	
N	NPN	

of inputs	Number of outputs	Connector
	8	D-sub connector (25 pins)
	8	Spring type terminal block (32 pins)

EX600 analog input/output unit



Analog input/output		Nun	• Number of channels and connector			
Symbol	Description	Symbol	Number of channels	Connector		
AX	Analog input	Α	2 channels	M12 connector (5 pins) 2 pcs.		
AY	Analog output					

EX600 analog input/output unit



Number of input/output channels and connector Symbol Number of input channels Number of output channels Connector R 2 channels 2 channels M12 connector (5 pins) 4 pcs.

EX600 IO-Link unit

EX600 – LAB1

Port s	pecification		• Number of ports and connector					
Symbol	Description		Symbol	Number of ports	Connector			
Α	Port class A		в	4 ports	M12 connector			
В	Port class B		В		(5 pins) 4 pcs.			
EX600 end plate EX600 – ED 2 –								



∕∂ SMC



Clamp bracket for EX600 EX600 - ZMA3



Enclosed parts Round head screw with washer (M4 x 20) 1 pc. P-tight screw (4 x 14) 2 pcs.

Valve plate EX600 – ZMV3





JSY3000-P Series **Manifold Options**

JSY31M - 26P - 1A

Caution Tightening torque for mounting screw M2: 0.16 N·m (JSY3000)

* Refer to the Web Catalog for dimensions.

Blanking plate

[With two mounting screws]

Used when valve additions are expected or for maintenance





JSY31M-26P-1A

Individual SUP spacer

[With a connector gasket, a base gasket, and two mounting screws] When the same manifold is to be used for different pressures, an individual SUP spacer assembly can be used to act as a supply port for different pressures.



Individual EXH spacer

[With a connector gasket, a base gasket, and two mounting screws] When valve exhaust affects other stations due to the circuit configuration, this spacer can be used for individual valve exhaust.





39 Individual EXH spacer

▲ Caution

manifold specification sheet.

customer.

Series

JSY3000

3/8 3/8

SUP/EXH blocking disk

[SUP blocking disk]

Inserting an SUP blocking disk in the pressure supply passage of a manifold valve can allow for the use of 2 different pressures (high and low) in 1 manifold.

[EXH blocking disk]

Inserting an EXH blocking disk in the exhaust passage of a manifold valve can separate the exhaust from the valve so it does not affect the other valves. It can also be used in positive pressure and vacuum pressure mixed manifolds. (2 pieces are required to block both the EA and EB sides of the EXH.)

Labels for blocking disks

These labels can be used to indicate and confirm where on the manifold the SUP/EXH blocking disk assemblies were inserted. (3 labels of each)



Intermediate SUP/EXH Block Assembly



DIntermediate SUP/EXH block assembly



Intermediate SUP/EXH block assembly accessories and the number of accessories

Accessories	Quantity
Tie-rod for additional stations	3 pcs.
A-1 Manifold block gasket	1 pc.
* Gasket is mounted.	

Clamp bracket

Series	Part no.	
JSY3000	SY30M-15-1A	

▲ Caution

The manifold base cannot be disassembled by the customer. Specify the mounting location of the intermediate SUP/EXH block assembly on the manifold specification sheet.





at the same time as the manifold, the

EXH blocking disk

JSY31M-40P-2A

The manifold base cannot be disassembled by the

Specify the locations of any blocking disks on the

* Each manifold block is made up of 4 stations, so

SUP blocking disk

JSY31M-40P-1A

blocking disks can only be mounted every 4 stations.



▲ 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.

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

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

Caution: Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury. _ _ _ _ _ _ _ _ _ _ _ _

A Warning

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.
 - 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 catalogs 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.

*1) 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 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 etc.

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 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

- 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.

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

SMC Corporation Akihabara UDX 15F

4-14-1, Sotokanda, Chiyoda-ku, Tokyo 101-0021, JAPAN Phone: 03-5207-8249 Fax: 03-5298-5362 https://www.smcworld.com © 2024 SMC Corporation All Rights Reserved