

ORIGINAL INSTRUCTIONS

Instruction Manual Digital Flow Switch – Integrated type PF2M7## series



The intended use of the digital flow switch is to monitor and display flow information

1 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.

- ^{*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.
- Refer to product catalogue, Operation Manual and Handling Precautions for SMC Products for additional information.
- Keep this manual in a safe place for future reference.
- This product is class A equipment intended for use in an industrial environment. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted or radiated disturbances.

A Caution	Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
A Warning	Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
🛕 Danger	Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

Warning

- Always ensure compliance with relevant safety laws and standards.
- All work must be carried out in a safe manner by a qualified person in compliance with applicable national regulations.
- Do not disassemble, modify (including changing the printed circuit board) or repair.
- An injury or failure can result. • Do not operate the product outside of the specifications. Fire, malfunction or damage to the product can result.
- Do not operate in an atmosphere containing flammable, explosive or corrosive gas.

Fire or an explosion can result.

- Do not use the product for flammable fluids. Fire, explosion, damage or corrosion can result.
- If using the product in an interlocking circuit: Provide a double interlocking system, for example a mechanical
- svstem • Check the product for correct operation.
- Otherwise malfunction can result, causing an accident.
- Do not use the product in a place where static electricity is a problem.

Product failure or system malfunction may result.

Otherwise electric shock, malfunction or product damage can result. • Refer to the operation manual on the SMC website (URL: <u>https://www.smcworld.com</u>) for more safety instructions.

2 Specifications

Model			701	702	705	710		750	711	721
q	Applic	able fluid	Dry air, N ₂ , Ar, CO ₂ (ISO8573-1 1.1.2 to 1.6.2)							
Fluid	Fluid 1 range	emperature		0 to 50 °C						
	Detection method		The (main	rmal flow)		Ther	mal (b	ranch	flow)	
	I flow [L/min]	Dry air,N ₂ ,Ar	0.01 to 1	0.02 to 2	0.05 to 5	0.1 to 10	0.3 to 25	0.5 to 50	1 to 100	2 to 200
	Rated flow range [L/min	CO2	0.01 to 0.5		0.05 to 2.5	0.1 to 5	0.3 to 12.5	0.5 to 25	1 to 50	2 to 100
ate	Set flow range	Instantaneous flow [L/min]	-0.05 to 1.05	to 2.1	-0.25 to 5.25	-0.5 to 10.5	-1.3 to 26.3	-2.5 to 52.5	-5 to 105	-10 to 210
Flow rate	Set flo	Accumulated flow [L]		0 to 199.99	0.0 99999		0	to 999	999999	9
	Min. setting unit	Instantaneous flow [L/min]	0.001		0.01			0.1		1
		Accumulated flow [L]	0.0	01	0.	.1			1	
	volum	nulated e [L/pulse]		0.01			0.1			1
	hold	nulated value		Se	elect fr	rom 2	and 5	minut	es	
	range				-0.	1 to 0	.75 M	Pa		
<u> </u>	Rated pressure range				-0.().75 N	lPa		
Pre	Proof pressure Pressure loss			Refe	r to th		MPa sure l	oss ar	anh	
	Pressure		Refer to the pressure loss graph.							
	characteristics		±5%F.S. ±1 digit (0.35 MPa standard)							
_	Power supply voltage	Switch output device	12 to 24 VDC ±10%							
Electrica	Power volt	IO-Link device	18 to 30 VDC ±10%							
Ē	Curre consu	nt mption	35 mA or less							
	Protec		Polarity protection ±3% F.S. ±1 digit							
	-	y accuracy			±3	% F.S	. ±1 d	igit		
racy	Analogue output accuracy		±3% F.S. ±1%F.S. ±1 digit							
Accuracy	-	atability	±1%F.S. ±1 digit (±2% F.S. ±1 digit when digital filter is set to 0.05 s) ±3%F.S. ±1 digit (15 to 35 °C: 25 °C standard)							
		erature cteristics	±3%F.S. ±1 digit (15 to 35 °C: 25 °C standard) ±5%F.S. ±1 digit (0 to 50 °C: 25 °C standard)							
	Outpu		NPN or PNP open collector							
		t mode	Select from hysteresis mode, window comparator mode, accumulated output mode, accumulated pulse output mode, error output							
	0		and switch output OFF							
	Switch operation Maximum load		Select from normal output and reversed output 80 mA							
					28 VDC (NPN only)					
put	Maxin currer Maxin voltag	nt num applied e			28 \	/DC (I	NPN c	only)		
tch output	Maxin currer Maxin voltag	nt num applied e			V or l	ess (L	oad c	only) urrent curren		
Switch output	Maxin currer Maxin voltag	nt num applied e		NP: 1.5	V or le 5 V or	ess (L less (oad ci Load d	urrent	t 80 m	
Switch output	Internal curren Maxin voltage drop voltage drop	nt num applied e		NP: 1.5	V or lo 5 V or or les	ess (L less (s (Loa	oad ci Load d	urrent current	t 80 m	
Switch output	Internal curren Maxin voltage drop voltage drop	nt num applied e Standard value IO-Link compatible product onse time	PI	NP: 1.8 1.5 V 0 to 0.1	V or le 5 V or or les 0 0.10 to 1.0 1 to 1.0	ess (L less (s (Loa 50 ms s (0.0 0 s (0. 0 s (1	oad cu Load cur ad curr or less 1 s inc s incre	urrent curren rent 80 s creme creme ement)	t 80 m) mA) nt), nt),	iÁ)
Switch output	Maxin currer Maxin voltage dob Respo	nt num applied e Standard value IO-Link compatible product onse time time	PI	NP: 1.8 1.5 V 0 to 0.1	V or le 5 V or or les 0 0.10 to 1.0 1 to 1.0	ess (L less (s (Loa 50 ms s (0.0 5 s (0.0 5 s (0.0 5 s (1 0 s, 3	oad cu Load cur ad curr or less 1 s inc s incre	urrent curren rent 80 s creme creme	t 80 m) mA) nt), nt),	iÁ)

2 Specifications (continued)

Model			701	702	705	710	725 7	750	711	721
Ħ	Outpu	t type	Voltage output: 1 to 5 V (or 0 to 10 V), Current output 4 to 20 mA							
Analogue output	nce	Voltage output					nce appr			
alogue	mpedance	Current	Max. load impedance Power supply voltage 24 V: 600 Ω				ige			
An		output	Powe	er sup			2 V: 30	0Ω		
	Respo	onse time					±40%	. / 1/		u al
	Refere	ence condition	56	5	standa	rd cor	condition	SŤD)	
	Display mode			Selec			ntaneous ated flov		w and	
	Jnit	Instantaneous flow		L/min, cfm						
		Accumulated flow				L,	ft ³			
Display	able le	Instantaneous flow [L/min]	-0.05 to 1.05	to 2.1	-0.25 to 5.25	-0.5 to 10.5	to 26.3 5	2.5 to 2.5	-5 to 105	-10 to 210
	Displayable range	Zero cut-off range	0 to	±10%			ed for ev I flow rat		1%F.:	S. of
		Accumulated flow [L]		0 to 999.99	0.0 99999		0 to	999	99999	9
	Display		Displ	Display type: LCD, Display colour: Red, green, Display digit: 7-segment, 4 digits						
	Operation LED			LED is ON when switch output is ON, OUT1/OUT2: Orange						
Dig	ital filte	er	Selec	t from	0.05 s	s, 0.1 s	s, 0.5 s,	1 s,	2 s ar	nd 5 s
e	Enclosure		IP40							
Environmental resistance	Withstand voltage		1000 VAC, 1 min. between terminals and housing							
ntal re	Insulation resistance		50 M Ω or longer (with 500 VDC) between terminals and housing							
onme	Operating temperature range		Operation: 0 to 50 °C, Storage: -10 to 60 °C (no freezing or condensation)							
Envi	Opera range	ting humidity	Operation, Storage: 35 to 85%R.H. (no freezing or condensation)							
D	ing cation	One-touch fitting	C4	4 (φ 4) /	′ C6 (¢	o6)	C6 (¢6 N7 (¢1,			φ8) / φ1/4")
Piping	Pipir specific	Screw fitting (Rc/NPT/G)			01 (R N1 (NI F1 (C	PT1/8))		N2 (N	Rc1/4) PT1/4) G1/4)
		irection					it, Rear			
Mat par		uid contact	PPS	nio	ckel pl	ating),	304, bra , Si, Au,			oless
	Body	One-touch fitting		S	Straigh Rear:		9			8 g 8 g
	Bc	Screw fitting		S	Straigh Rear:		9			2 g 7 g
Weight	Flow a valve	adjustment		-			+34 9	g		
We	Lead					+3				
	Brack					+20	0 g			
	adapte					+1	5 g			
	DIN rail mounting bracket		+65 g							

Warning

Special products (-X) might have specifications different from those shown in this section. Contact SMC for specific drawings.

3 Names of Individual parts

3.1 PF2M7## (with flow adjustment valve)



Lead wire and connector Piping port (IN side)

Item	Description	
Socket	Socket for electrical connections.	
Piping port	Connected to the fluid inlet IN side and to the fluid outlet OUT side.	
Flow adjustment valve	Orifice mechanism to adjust the flow.	
Lock ring	Used to lock the flow adjustment valve.	
Mounting hole	Used to mount the product on a DIN rail or directly to a panel.	
Body	The body of the product.	
Lead wire and connector	Lead wire to supply power and output signals.	

3.2 Display



Output display (Operation LED)



Main display

IO-Link status indicator light

Item	Description
UP button	Selects the mode or increases the ON/OFF set value. Press this button to change to the peak display mode.
DOWN button	Selects the mode or decreases the ON/OFF set value. Press this button to change to the bottom display mode.
Main display	Displays the flow value, setting mode, and error indication. Four display modes can be selected: display always in red or green, or display changing from green to red, or red to green, according to the output status (OUT1).
SET button	Press this button to change to another mode and to set a value.
Output display (Operation LED)	Displays the output status of OUT1 and OUT2. OUT1: LED is ON (Orange) when the output is ON. OUT2: LED is ON (Orange) when the output is ON. When the accumulated pulse output mode is selected, the output display is OFF.
Units display	Arbitrary units are ON based on the flow display setting (instantaneous or accumulated flow)
IO-Link status indicator light LED is ON when OUT1 is used in IO-Link mo is OFF in SIO mode)	

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4 Installation

4.1 Installation

Warning

- Do not install the product unless the safety instructions have been read and understood.
- Use the product within the specified operating pressure and temperature range.
- Proof pressure could vary according to the fluid temperature. Check the characteristics data for operating pressure and proof pressure.

4.2 Environment

Warning

- Do not use in an environment where corrosive gases, chemicals, salt water or steam are present.
- Do not use in an explosive atmosphere.
- Do not expose to direct sunlight. Use a suitable protective cover.
 Do not install in a location subject to vibration or impact in excess of the product's specifications.
- Do not mount in a location exposed to radiant heat that would result in temperatures in excess of the product's specifications.
- Refer to the flow direction of the fluid indicated on the product for installation and piping.
- Do not mount the body with the bottom facing upwards. Retention of air can cause inability to measure accurately.
- Do not insert metal wires or other foreign matter into the piping port. This can damage the sensor causing failure or malfunction.
- Never mount a product in a location that will be used as a foothold. The product may be damaged if excessive force is applied by stepping or climbing onto it.
- If there is a risk of foreign matter entering the fluid, install and pipe a filter or mist separator at the inlet to avoid failure and malfunction. Otherwise damage or malfunction can result.

4 Installation (continued)

4.4 Bracket mounting

- Mount the bracket using the mounting screws supplied.
- The required tightening torque is 0.42 ±0.04 N•m.
- Install the product (with bracket) using the M3 screws (4 pcs.).
- Bracket thickness is approximately 1.2 mm.

Without flow adjustment valve (using ZS-33-M)

With flow adjustment valve (using ZS-33-MS)



4 Installation (continued)

4.7 Wiring

Caution

- Do not perform wiring while the power is on.
- Confirm proper insulation of wiring.
- Do not route wires and cables together with power or high voltage cables. Otherwise the product can malfunction due to interference of noise and surge voltage from power and high voltage cables to the signal line.
- Keep wiring as short as possible to prevent interference from electromagnetic noise and surge voltage. Do not use a cable longer than 30 m. When using it as an IO-Link device, do not use a cable longer than 20 m.
- Ensure that the FG terminal is connected to ground when using a commercially available switch-mode power supply.
- When the analogue output is used, install a noise filter (line noise filter, ferrite element, etc.) between the switch-mode power supply and this product.

Connecting / Disconnecting

- When mounting the connector, insert it straight into the socket, holding the lever and connector body, and push the connector until the lever hooks into the housing, and locks.
- When removing the connector, press down the lever to release the hook from the housing and pull the connector straight out.



4.3 Panel mounting

• Insert panel mount adapter B (supplied as an accessory) into section A of the panel mount adapter.

Push panel mount adapter B from behind until the display is fixed onto the panel.

The bracket pin engages the notched part of panel adapter section C to fix the display.

• The switch can be mounted on a panel with a thickness of 1 to 3.2 mm.



4.5 DIN rail mounting (using ZS-33-R#)

- Mount the DIN rail mounting parts using the mounting screws and joint screws supplied.
- The required tightening torque of the DIN rail mounting screws and joint screws is 0.4 ±0.05 N•m.



• Refer to the operation manual on the SMC website (URL: <u>https://www.smcworld.com</u>) for all mounting dimensions.

4.6 Piping

- Caution
 Before connecting piping make sure to clean up chips, cutting oil, dust etc.
- Ensure there is no leakage after piping.
- Any dust left in the piping should be flushed out by air blow before connecting piping to the product.

Otherwise damage or malfunction can result.

• For piping of the product, hold the piping with a wrench on the metal part of the product.

Holding other parts of the product with a wrench may damage the product.

Connector pin numbers (on the lead wire) •Lead wire and connector (ZS-33-D)



No.	Signal name	Lead wire colour
1	DC(+)	Brown
2	OUT2	White
3	OUT1	Black
4	DC(-)	Blue

•M12 conversion lead wire (ZS-33-DM)



Used as switch output device

No.	Signal name	Lead wire colour	
1	DC(+)	Brown	
2	N.C./OUT2	White	
3	DC(-)	Blue	
4	OUT1	Black	

Used as IO-Link device

No.	Signal name	Lead wire colour
1	L+	Brown
2	N.C./OUT2	White
3	L- Blue	
4	C/Q	Black





The product code is displayed for approximately 3 seconds after power is supplied. Then measurement mode will be displayed and the switch operation will start.



[Measurement mode]

Measurement mode is the condition where the flow is detected and displayed, and the switch function is operating. This is the basic mode; other modes should be selected for set-point changes and other function settings.



Flow Setting and Hysteresis (Simple setting mode)

button once



selection mode)

Press the SET button for 5 seconds or longer

Other Settings

Snap shot
Key-lock

Zero clear

*: The outputs will continue to operate during setting.

*: Simple setting mode and function selection mode settings are reflected each other.

6 Flow Setting

6.1 Switch operation

When the flow exceeds the set value, the switch will be turned ON. When the flow falls below the set value by the amount of hysteresis or more, the switch will be turned OFF.

The default setting is to turn on the flow switch when the flow reaches the centre of the upper limit of the rated flow range.

If the operation shown below is acceptable, keep this setting.



*: For hysteresis refer to [F 1] Setting of OUT1 and [F 2] Setting of OUT2.

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7 Simple Setting mode

[Simple setting mode (Hysteresis mode)]

In the Simple setting mode, the set value and hysteresis can be changed.

- (1) Press the SET button once in measurement mode.
- [P_1] or [n_1] and the [current set value] are displayed alternately.

- (2) Change the set value using the UP or DOWN button and press the SET button to set the value. Then, the setting moves to hysteresis setting (The snap shot function can be used).
- · Press the UP button continuously to keep increasing the set value.

· Press the DOWN button continuously to keep decreasing the set value.

(3) $[H_1]$ and the current set value are displayed in turn.



(4) Change the hysteresis by pressing the UP or DOWN button and press the SET button. Setting is completed and the product returns to measurement mode (The snap shot function can be used).

- * For models with switch outputs for both OUT1 and OUT2, [P_2] or [n_2] will be displayed. These are set simultaneously.
- * After enabling the setting by pressing the SET button, it is possible to return to measurement mode by pressing the SET button for <u>2 seconds</u> <u>or longer</u>.
- * When hysteresis mode is not used, "Input set value" is displayed.
- * The set value and hysteresis settings limit each other.
- \ast For more detailed setting, set each function in function selection mode.

8 Function Setting

8.1 Function selection mode

In measurement mode, press the SET button for 2 to 5 seconds to display [F 0] on the display.

Select to display the function to be change $[F \square \square]$.

Press the SET button for 2 seconds or longer in function selection mode to return to measurement mode.



 $\ast:$ Some products do not have all the functions. If a function is not available or selected due to configuration of other functions, [- -] is displayed.

8 Function Setting (continued)

8.2 Default settings

	3.2 Default settings					
		Default setting				
	[FLU] Select the flow rate	[Air] Dry air, N ₂				
	[rEF] Setting the units criteria	[Std] Standard condition				
[F 0] [FLU]	[Unit] Measurement unit setting	[L] L/min (L)				
[. =0]	[norP] Switch output PNP/NPN setting	[PnP] PNP output				
	[i_o] SW / external input setting	[oUt] SW output				
	[oUt1] Setting of OUT1	[HYS] Hysteresis mode				
	[1ot] OUT1 output configuration setting	[1_P] Normal output				
[F 1]	[P_1] Set value	[] 50% of maximum rated flow PF2M701: 0.5 L/min, PF2M702: 1.0 L/min PF2M705: 2.5 L/min, PF2M710: 5 L/min PF2M725: 12.5 L/min, PF2M725: 25 L/min PF2M711: 50 L/min PF2M721: 100 L/min				
[oUt1]	[H_1] Hysteresis	[] 5% of maximum rated flow PF2M701: 0.05 L/min, PF2M702: 0.1 L/min PF2M705: 0.25 L/min, PF2M710: 0.5 L/min PF2M725: 1.3 L/min, PF2M750: 2.5 L/min PF2M711: 5 L/min PF2M721: 10 L/min				
	[dt1] Delay time setting	[0.00] 0.00 s				
	[CoL] Display colour setting	[1SoG] ON: Green OFF: Red				
	[oUt2] Setting of OUT2	[HYS] Hysteresis mode				
	[2ot] OUT2 output configuration setting	[2_P] Normal output				
[F 2]	[P_2] Set value	[] 50% of maximum rated flow PF2M701: 0.5 L/min, PF2M702: 1.0 L/min PF2M705: 2.5 L/min, PF2M710: 5 L/min PF2M725: 12.5 L/min, PF2M750: 25 L/min PF2M711: 50 L/min PF2M721: 100 L/min				
[oUt2]	[H_2] Hysteresis	[] 5% of maximum rated flow PF2M701: 0.05 L/min, PF2M702: 0.1 L/min PF2M705: 0.25 L/min, PF2M710: 0.5 L/min PF2M725: 1.3 L/min, PF2M750: 2.5 L/min PF2M711: 5 L/min PF2M721: 10 L/min				
	[dt2] Delay time setting	[0.00] 0.00 s				
	[CoL] Display colour setting	[1SoG] ON: Green OFF: Red				
[F 3] [FiL]	[FiL] Digital filter setting	[1.0] 1.0 s				
[F 4] [PrS]	[PrS] Auto-preset function setting	[oFF] Manual				

8 Function Setting (continued)

	Item	Default setting	
[F10] [FLo]	[FLo] Display mode	[inS] Instantaneous flow	
[F11] [drE]	[drE] Display resolution setting	[1000] 1000-split	
[F13] [rEv]	[rEv] Reverse display	[oFF] Not reverse	
[F14] [CUt]	[CUt] Zero cut-off setting	[1.0] 1% of maximum rated flow PF2M701: 0.01 L/min, PF2M702: 0.02 L/min PF2M705: 0.05 L/min, PF2M705: 0.3 L/min, PF2M725: 0.3 L/min, PF2M750: 0.5 L/min PF2M721: 2 L/min	
[F20] [inP]	[inP] External input setting	[rAC] Accumulated value reset	
[F22] [AoUt]	[AoUt] Analogue output setting	 [1-5] 1 to 5 V Voltage output (when voltage is output) [] Analogue output is not selectable (for current type output) 	
[F30] [SAvE]	[SAvE] Accumulated flow value hold setting	[oFF] Not held	
[F80] [diSP]	[diSP] Display OFF mode setting	[on] Normal display	
[F81] [Pin]	[Pin] Security code	[oFF] Unused	
[F90] [ALL]	[ALL] Setting of all functions	[oFF] Unused	
[F96] [S_in]	[S_in] External input signal check	No setting due to input signal setting	
[F98] [tESt]	[tESt] Output checking	[n] Normal output	
[F99] [ini]	[ini] Reset to the default settings	[oFF] Not recover	

*: Setting is only possible for models with the units selection function.

*: Only available for models with switch outputs for both OUT1 and

OUT2.

*: This function is available for models with analogue output. Analogue free span function can be selected.

*: This function is available in IO-Link compatible products.

*: This function is available for models with external input.

9 Other Settings

- Snap shot function
- Peak/bottom value indication
- Reset
- Key-lock function
- Zero clear function

Refer to the operation manual on the SMC website (URL: <u>https://www.smcworld.com</u>) for setting these functions.

10 Maintenance

10.1 General Maintenance

Caution

- Not following proper maintenance procedures could cause the product to malfunction and lead to equipment damage.
- If handled improperly, compressed air can be dangerous.
- Maintenance of pneumatic systems should be performed only by qualified personnel.
- Before performing maintenance, turn off the power supply and be sure to cut off the supply pressure. Confirm that the air is released to atmosphere.
- After installation and maintenance, apply operating pressure and power to the equipment and perform appropriate functional and leakage tests to make sure the equipment is installed correctly.
- If any electrical connections are disturbed during maintenance, ensure they are reconnected correctly and safety checks are carried out as required to ensure continued compliance with applicable national regulations.
- Do not make any modification to the product.
- Do not disassemble the product, unless required by installation or maintenance instructions.
- How to reset the product after a power cut or when the power has been unexpectedly removed

The settings of the product are retained from before the power cut or de-energizing.

The output condition also recovers to that before the power cut or deenergizing, but may change depending on the operating environment. Therefore, check the safety of the whole system before operating the product.

11 How to Order

Refer to drawings/catalogue on the SMC website (URL: <u>https://www.smcworld.com</u>) for 'How to Order' information.

12 Outline Dimensions (mm)

Refer to the operation manual on the SMC website (URL: <u>https://www.smcworld.com</u>) for outline dimensions.

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13 Troubleshooting 13.1 Error indication

Error name	Error display	Description	Measures
Instantaneous	XXX	Flow exceeding the upper limit of the set flow range is applied.	Reduce the flow.
flow error		Flow exceeding the lower limit of the set flow range is applied.	Ensure the flow is in the correct direction.
OUT1 over current error	[r	The load current applied to the switch output has exceeded the maximum value. (OUT1)	Turn the power off and remove the cause of the
OUT2 over current error	[r]	The load current applied to the switch output has exceeded the maximum value. (OUT2)	over current. Then turn the power on again.
Zero clear error	[r]	During zero clear operation, pressure greater than ±5% F.S. is applied. (The mode is returned to measurement mode automatically 1 second later).	Retry the zero clear operation without applying fluid.
System error	Er [] Er 4 Er 5 Er 7 Er 8 Er 14 Er 14 Er 15 Er 40	An internal data error has occurred.	Turn the power off and turn it on again.
Accumulated flow error	Accumulated flow is displayed (flashing)	The accumulated flow has exceeded the accumulated flow range. (For accumulated increment)	Reset the accumulated flow. (Press the UP and DOWN
	Accumulated flow is displayed (flashing)	The accumulated flow has reached the set accumulated flow. (For accumulated decrement)	buttons simultaneously for <u>1 second or</u> <u>longer</u>)
Version does not match	[Er 15]	Version of master and IO-Link does not match. Mismatch because master version is 1.0.	Align the master IO-Link version to the device.

If the error cannot be reset after the above measures are taken, or errors other than above are displayed, please contact SMC.

Refer to the operation manual on the SMC website (URL: <u>https://www.smcworld.com</u>) for more detailed information about troubleshooting.

14 Limitations of Use

14.1 Limited warranty and Disclaimer/Compliance Requirements Refer to Handling Precautions for SMC Products.

15 Product disposal

This product should not be disposed of as municipal waste. Check your local regulations and guidelines to dispose this product correctly, in order to reduce the impact on human health and the environment.

16 Contacts

Refer to <u>www.smcworld.com</u> or <u>www.smc.eu</u> for contacts.

SMC Corporation

URL: <u>https://www.smcworld.com</u> (Global) <u>https://www.smc.eu</u> (Europe) SMC Corporation, 4-14-1, Sotokanda, Chiyoda-ku, Tokyo 101-0021, Japan Specifications are subject to change without prior notice from the manufacturer. © 2021 SMC Corporation All Rights Reserved. Template DKP50047-F-085M