

## Verified Product Identity Mapping

### PF2A703H-10-29

- SMC exact-model record: PF2A703H-10-29.
- PF2A703H: high-flow digital flow switch for air, 150 to 3000 L/min.
- 10: Rc1 piping port, applicable to PF2A703H.
- 29: NPN open-collector switch output plus 4 to 20 mA analog output.
- Official specification table: mass 1.1 kg; lead wire is not included in the mass.
- The section pages that follow preserve the official SMC manual content in source order.

#### Official SMC evidence

Official exact-model record:

<https://www.smcworld.com/webcatalog/s3s/en-jp/detail/?partNumber=PF2A703H-10-29>

Official PF2A catalog:

[https://www.smcworld.com/catalog/BEST-5-6-en/pdf/6-p1017-1038-pf2a\\_en.pdf](https://www.smcworld.com/catalog/BEST-5-6-en/pdf/6-p1017-1038-pf2a_en.pdf)

Official installation manual:

<https://www.smcworld.com/upfiles/etc/international/imm/PF2xx-TFI44-A.pdf>

PF2##-TFI44GB-A



# Installation & Maintenance Manual

## Digital Flow Switch

### (High Flow Rate for Air)

#### Series *PF2A703H*

#### *PF2A706H*

#### *PF2A712H*



## Safety Instructions

The Digital Flow Switch and this manual contain essential information for the protection of users and others from possible injury and property damage and to ensure correct handling. Please confirm that you fully understand the definition of the following messages (signs) before going on to read the text, and always follow the instructions.

Please read and understand the operation manuals of related apparatus before operating the flow switch.

### IMPORTANT MESSAGES

Read this manual and follow its instructions. Signal words such as **WARNING** and **NOTE** will be followed by important safety information that must be carefully reviewed.

#### **⚠ WARNING**

Indicates a potentially hazardous situation which could result in death or serious injury if you do not follow instructions.

#### **NOTE**

Gives you helpful information.

**! WARNING**

**Do not disassemble, modify (including change of printed circuit board) or repair.**

An injury or failure can result.

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**Do not operate outside of the specification.**

Fire, malfunction or switch damage can result.

Please use it after confirming the specification.

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**Do not operate in a combustible gas or explosive gas atmosphere.**

Fire or an explosion can result.

This flow switch is not an explosion proof type.

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**Do not use with a combustible fluid.**

Otherwise, a fire or an explosion or damage may potentially result.  
(The detector of the flow switch for air is heated to 150°C).

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## SAFETY (continue)

### NOTE

Follow the instructions given below when handling the flow switch. Otherwise, the switch may be damaged or may fail, thereby resulting in malfunction.

- Do not drop, bring into collision with other objects or apply excessive shock to the unit ( $490\text{m/s}^2$  or more).
- Do not pull the lead wire with force or lift the main unit by holding the lead wire. (Pulling strength less than 49N)
- Connect wires and cables correctly.
- Do not perform wiring while power is on.
- Although the flow switch complies with the CE Marking, it does not have lightning surge protection, therefore please apply the necessary protection to the equipment.
- Although the flow switch complies with the CE Marking, it should be protected against any sources of surge (electro-magnetic lifter, high frequency induction furnace, motors etc.) around the flow switch.
- Do not use with power cable or high-voltage cable in the same wire route.
- Do not use in a place in which water, oil or chemical splashes may occur.
- Install a filter and/or mist separator on the primary side (inlet side) if foreign matter is feared to mix in a fluid.
- Flush the dust in the piping with air blow before piping the flow switch.
- Do not press the setting buttons with a sharp pointed object.
- Turn on the power supply when the flow is zero. Some initial drift occurs during ten minutes after turning the power on.
- For 3 seconds after power is turned ON the measurement output will be OFF. This includes after momentary disconnection of the power, by reset etc.)
- During initial setting or when setting the flow switch, the measured output continues to change with the flow measurement as before setting. Please check how this will affect the equipment before use.
- Opening and closing of flow passage by restrictor should be within max. measured flow rate value.

# Model Indication Method

PF2A7□H-□□-□□-□

## Units Specification

**No Symbol** : Unit selection function provided (\*1,2)

**M** : SI units fixed

## Lead Wire Specification

**No Symbol** : M12 Lead wire with connector (3m)

**N** : No Lead wire with connector

## Output Specification

**28** : NPN open collector 1output +  
Analog output (1 to 5V)

**29** : NPN open collector 1output +  
Analog output (4 to 20mA)

**68** : PNP open collector 1output +  
Analog output (1 to 5V)

**69** : PNP open collector 1output +  
Analog output (4 to 20mA)

## Piping Port

**10** : Port size 1 (Applicable for PF2A703H)

**14** : Port size 1·1/2 (Applicable for PF2A706H)

**20** : Port size 2 (Applicable for PF2A712H)

## Port Screw Type

**No Symbol** : Rc    **N** : NPT    **F** : G

## Flow Rate Range

**03** : 150 to 3000L/min

**06** : 300 to 6000L/min

**12** : 600 to 12000L/min

### NOTE1 :

The new Measurement Law prohibits use in Japan of flow switches with a unit selection function.

### NOTE2 : The fixed unit

For instantaneous flow rate is : L/min

For integrated flow rate is : L, m<sup>3</sup>, m<sup>3</sup> x 10<sup>3</sup>

# Specification

| Model                              |                 | PF2A703H                                                                                                                                                                                                      | PF2A706H    | PF2A712H     |
|------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|
| Flow Rate Indication/Range         |                 | Dry air, Nitrogen                                                                                                                                                                                             |             |              |
| Flow rate indication range (L/min) |                 | 125 to 3025                                                                                                                                                                                                   | 250 to 6050 | 550 to 12050 |
| Set flow rate range (L/min)        |                 | 125 to 3025                                                                                                                                                                                                   | 250 to 6050 | 550 to 12050 |
| Measured flow rate range (L/min)   |                 | 150 to 3000                                                                                                                                                                                                   | 300 to 6000 | 600 to 12000 |
| Measured min unit (L/min)          |                 | 5                                                                                                                                                                                                             | 10          |              |
| Flow rate conversion               |                 | 100L/pulse                                                                                                                                                                                                    |             |              |
| Integrated flow rate range         |                 | 0 to 9,999,999,999L                                                                                                                                                                                           |             |              |
| Indication Unit (*1,2)             |                 | Instantaneous flow rate : L/min, CFM<br>Integrated flow rate : L, m <sup>3</sup> , m <sup>3</sup> x 10 <sup>3</sup> , ft <sup>3</sup> , ft <sup>3</sup> x 10 <sup>3</sup> , ft <sup>3</sup> x 10 <sup>6</sup> |             |              |
| Operating fluid temp.              |                 | 0 to 50°C (No condensation or freezing)                                                                                                                                                                       |             |              |
| Linearity                          | Indicated value | ±1.5%F.S. or less                                                                                                                                                                                             |             |              |
|                                    | Analog output   | ±3%F.S. or less                                                                                                                                                                                               |             |              |
| Power supply voltage               |                 | 24VDC, ripple ±10% or less                                                                                                                                                                                    |             |              |
| Current consumption                |                 | 150mA or less (No load)                                                                                                                                                                                       |             |              |
| Repeatability                      |                 | ±1.5%F.S. or less (0.7MPa, 20°C)                                                                                                                                                                              |             |              |
| Hysteresis                         |                 | Hysteresis mode : Variable (Settable starting 0)<br>Window comparator mode : Set for 0 to 3%F.S.                                                                                                              |             |              |
| Response time                      |                 | 1s or less                                                                                                                                                                                                    |             |              |
| Detecting method                   |                 | Thermal sensing                                                                                                                                                                                               |             |              |
| Withstanding pressure              |                 | 2.25MPa                                                                                                                                                                                                       |             |              |
| Operation indication range         |                 | 0.1 to 1.5MPa                                                                                                                                                                                                 |             |              |
| Indication digit                   |                 | 5 digits 7 segment LCD                                                                                                                                                                                        |             |              |

\*1) With units selection function (Without units selection function, fixed to SI unit [L/min or L, m<sup>3</sup>, m<sup>3</sup> x 10<sup>3</sup>])

\*2) Flow rate indication can be switched to normal condition of 0°C/101.3kPa or standard condition of 20°C/101.3kPa/65%RH (ANR)

| Model                     |                                          | PF2A703H                                                                                                                                  | PF2A706H | PF2A712H |
|---------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|
| Output specification (*3) | Switch Output or Integrated Pulse Output | [NPN open collector] Max. load current : 80mA, Internal voltage drop : 1V or less (At load current 80mA), Max. input voltage : 30VDC      |          |          |
|                           |                                          | [PNP open collector] Max. load current : 80mA, Internal voltage drop : 1.5V or less (At load current 80mA)                                |          |          |
|                           | Analog output                            | Voltage output : 1 to 5V (within rated flow range)<br>Linearity : ±3%F.S. or less<br>Permissible load impedance : 100kΩ or more           |          |          |
|                           |                                          | Current output : 4 to 20mA (within rated flow range)<br>Linearity : ±3%F.S. or less<br>Permissible load impedance : 250Ω or less          |          |          |
| Enclosure                 |                                          | IP65 (IEC60529)                                                                                                                           |          |          |
| Ambient temperature range |                                          | Operation : 0 to 50°C, Storage : -25 to 85°C<br>(No condensation or freezing)                                                             |          |          |
| Withstand voltage         |                                          | 1000VAC, 1minute (between terminal block and case)                                                                                        |          |          |
| Insulation resistance     |                                          | 50MΩ or less (at 500VDC M)<br>(between terminal block and case)                                                                           |          |          |
| Noise resistance          |                                          | 1000Vp-p Pulse width 1μs rise time 1ns                                                                                                    |          |          |
| Vibration proof           |                                          | 10 to 500Hz smaller one 1.5mm or 98m/s <sup>2</sup> , double amplitude, each in directions of X,Y and Z 2hours                            |          |          |
| Impact proof              |                                          | 490m/s <sup>2</sup> , 3 times each in directions of X,Y and Z                                                                             |          |          |
| Temp. characteristics     |                                          | ±2.0%F.S. or less (0 to 50°C, 25°C standard)                                                                                              |          |          |
| Material                  |                                          | Attachment : A6063, Packing : H-NBR, Spacer : PPS, Mesh : SUS, Inner body : A6063, Sensor case : PPS, Sensor : Leaded glass/ptlr/FeNi/OFC |          |          |
| Port size                 |                                          | 1                                                                                                                                         | 1-1/2    | 2        |
| Mass (Weight) (*4)        |                                          | 1.1kg                                                                                                                                     | 1.3kg    | 2.0kg    |

\*3) Select switch output or pulse output of integrated flow rate at initial setting.

\*4) Lead wire not included.

\*5) The flow switch conforms entirely to the CE standard.

# Names and Functions of Individual Parts

## Display Part

Output(OUT1)Lamp : Lit when OUT1 is ON.

Flashes when an overcurrent error occurs.

Flow display : Display the Instantaneous or integrated flow rate, Set mode status and error codes.

Flow check display : Flashing interval varies depending on the flow.

Unit display : Selected unit is displayed. Single unit type is displayed in SI unit (L/min or L, m<sup>3</sup>, m<sup>3</sup> x 10<sup>3</sup> ).

▲ Button (UP) : Selects the mode and increases a set ON/OFF value.

▼ Button (DOWN) : Selects the mode and decreases a set ON/OFF value.

MODE Button (MODE) : Changes the mode.

SET Button (SET) : Changes the mode and sets a set value.

## \* RESET

Pressing the ▲ and ▼ buttons simultaneously will activate the RESET function. Use this function to clear errors when a problem occurs.

## Body

Flow switch sensor body. The arrow on the side of the body indicates the direction of flow.

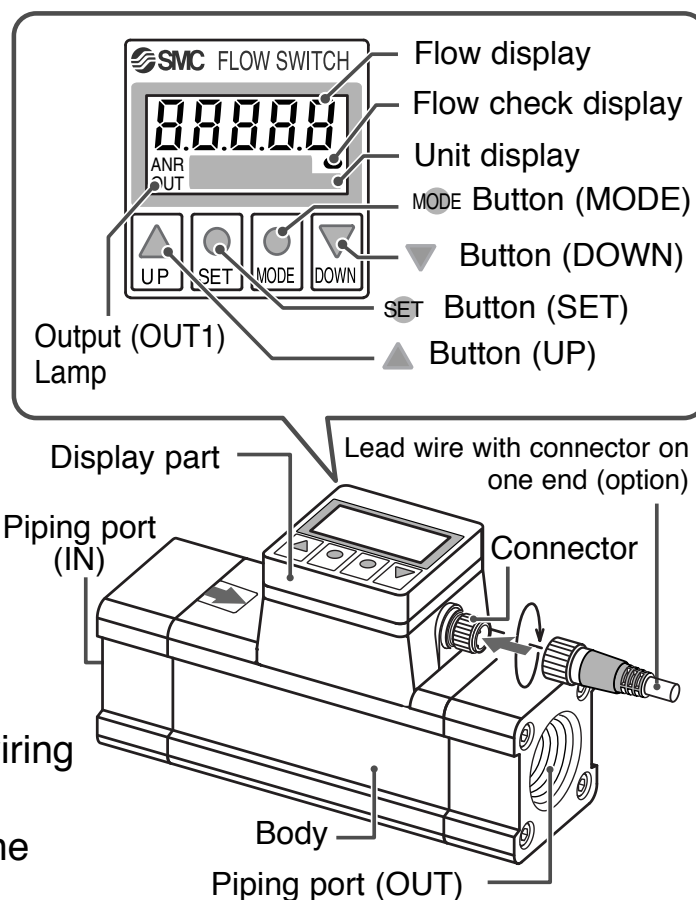
## Piping port

This port connects with pipeline. Use a pipe fitting to connect with external pipeline.

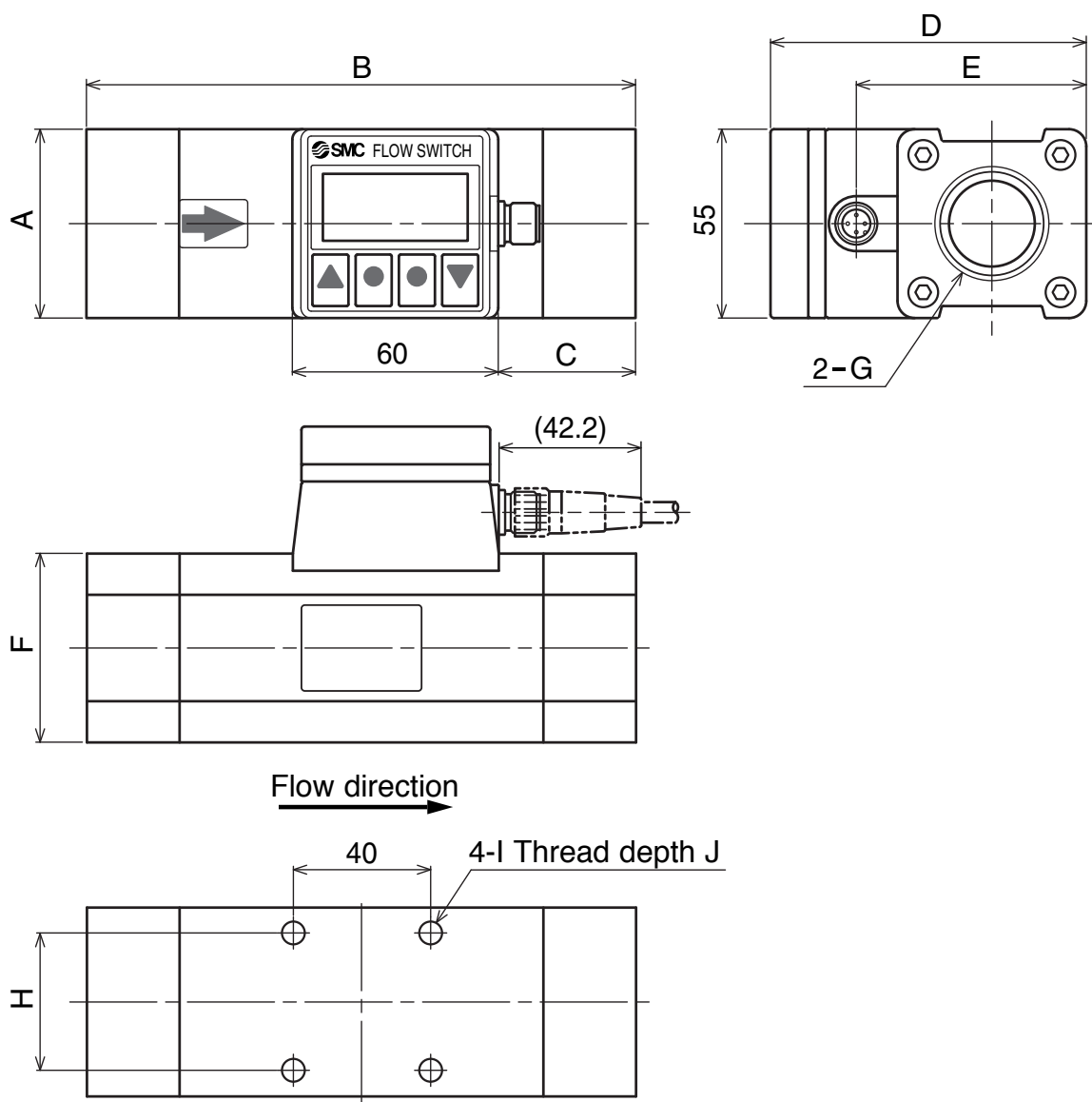
## Accessories

(When option is specified for wiring in the model type specification)

Lead wire with connector on one end (3 m in length) (ZS-29-A)



# Outline with Dimensions (in mm)



## Thred G

|          |                           |
|----------|---------------------------|
| PF2A703H | Rc1, NPT1, G1             |
| PF2A706H | Rc1·1/2, NPT1·1/2, G1·1/2 |
| PF2A712H | Rc2, NPT2, G2             |

| Model No. | A  | B   | C  | D   | E  | F  | H  | I        | J |
|-----------|----|-----|----|-----|----|----|----|----------|---|
| PF2A703H  | 55 | 160 | 40 | 92  | 67 | 55 | 36 | M5 x 0.8 | 8 |
| PF2A706H  | 65 | 180 | 45 | 104 | 79 | 65 | 46 | M6 x 1   | 9 |
| PF2A712H  | 75 | 220 | 55 | 114 | 89 | 75 | 56 | M6 x 1   | 9 |

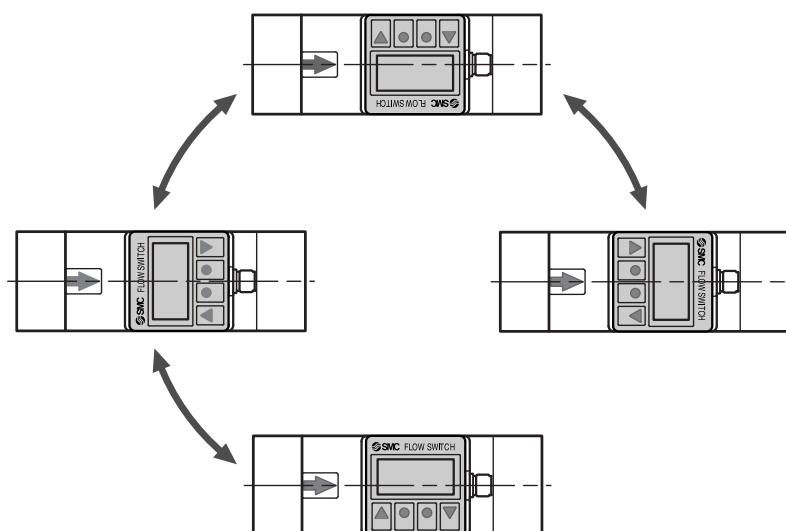
PF2##-TFI44GB-A

## Installation

Before mounting the flow switch, read "Safety Instructions" and "Installation" described in this manual carefully to ensure safe and correct measurement.

### Mounting

- Use this flow switch within the specified operating pressure range and operating temperature range.
- Withstand pressure is 2.25 MPa.
- Do not install a flow switch at a foothold position.
- Install a flow switch so that the flow direction agrees with the arrow direction on the side of the body.
- Mount the body so that the underneath of the body does not face upward.
- Provide a straight pipe length of more than eight times the pipe diameter on the primary side (Inlet side) of the flow switch.
- Set the required display part position taking the cable entry and display position into account. The display part rotates 270 degree.

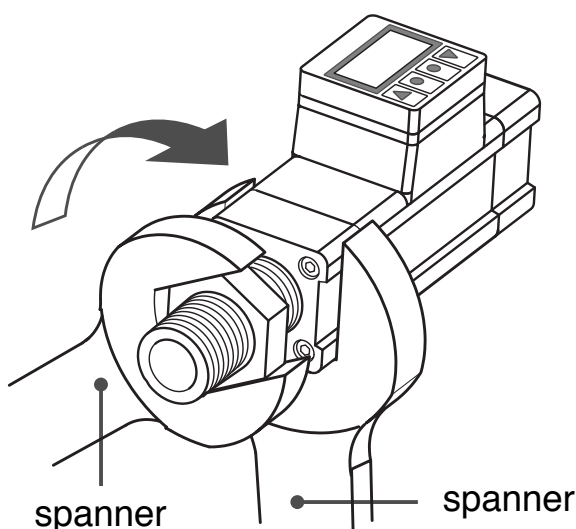


## Piping connections

- Use a suitable pipe fitting to connect pipeline with the flow switch. Observe the specified tightening torque when connecting pipes. Refer to the following table for the appropriate torque values.

| Nominal size of thread | Tightening torque(N·m) |
|------------------------|------------------------|
| Rc 1                   | 36 to 38               |
| Rc 1·1/2               | 48 to 50               |
| Rc 2                   | 48 to 50               |

- When connecting the pipeline to the flow switch, apply a spanner to the metal part of the flow switch body.
- Make sure that sealing tapes do not enter inside the pipe when connecting pipes.



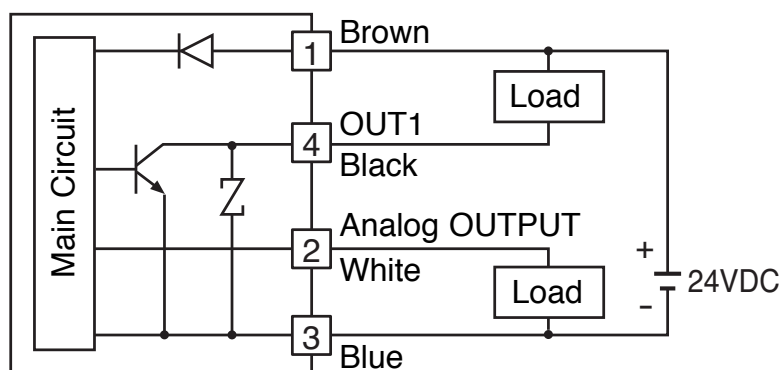
## Internal Circuit and Wiring

### Output Specification

When the Lead wire with connector provided by SMC corporation is used the color of wire (Brown, White, Black, Blue) shown on circuit diagram will be applied.

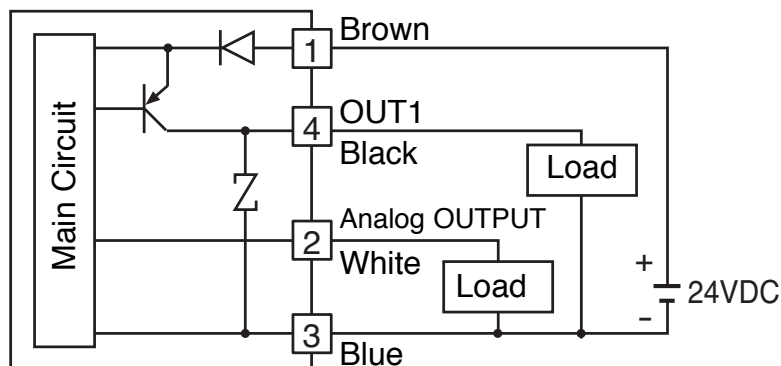
#### -28, -29

NPN open collector 1 output + Analog output  
Max. 30V, 80mA Internal voltage drop : 1V or less



#### -68, -69

PNP open collector 1 output + Analog output  
Max. 80mA Internal voltage drop : 1.5V or less

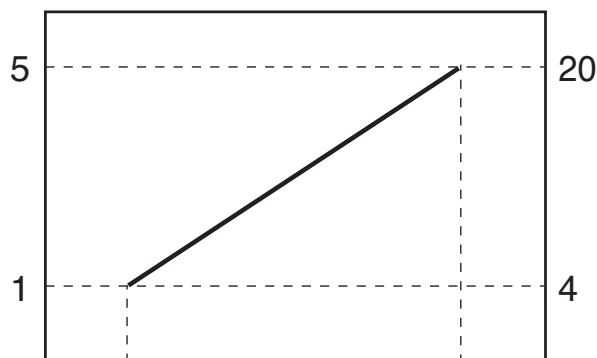


PF2A7□H-□ -28/68

Output : 1 to 5V

PF2A7□H-□ -29/69

Output : 4 to 20mA



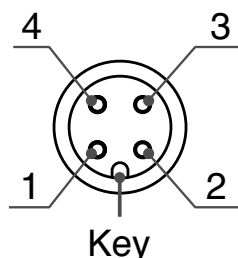
Min. measured flow Max. measured flow  
Instantaneous flow [L/min]

| Model No. | Min. measured flow (L/min) | Max. measured flow (L/min) |
|-----------|----------------------------|----------------------------|
| PF2A703H  | 150                        | 3000                       |
| PF2A706H  | 300                        | 6000                       |
| PF2A712H  | 600                        | 12000                      |

## How to attach connectors:

- Turn off power before connecting or disconnecting the connector.
- To insert the connector, push the connector socket of the lead wire to the key part of the switch connector after aligning them to each other and secure the connector with the lock nut.
- To disconnect the connector, unlock the connector lock nut and pull out the connector straight.
- Install the lead wire separately from the route for power cable or high-voltage cable. Otherwise, malfunction may potentially result due to noise.

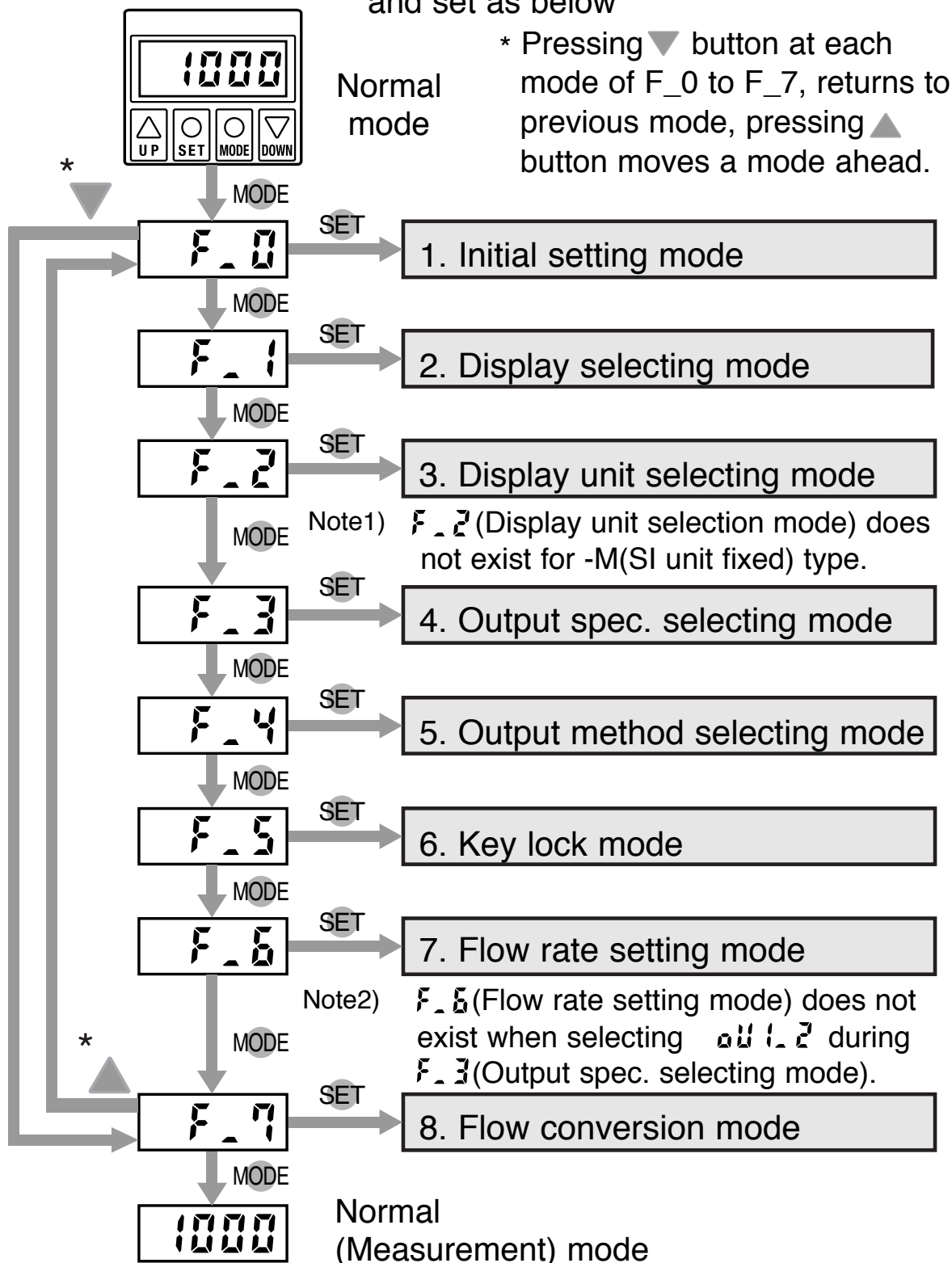
## Connector pin number



| Pin No. | Pin name      |
|---------|---------------|
| 1       | DC(+)         |
| 2       | Analog Output |
| 3       | DC(-)         |
| 4       | OUT1          |

# Setting

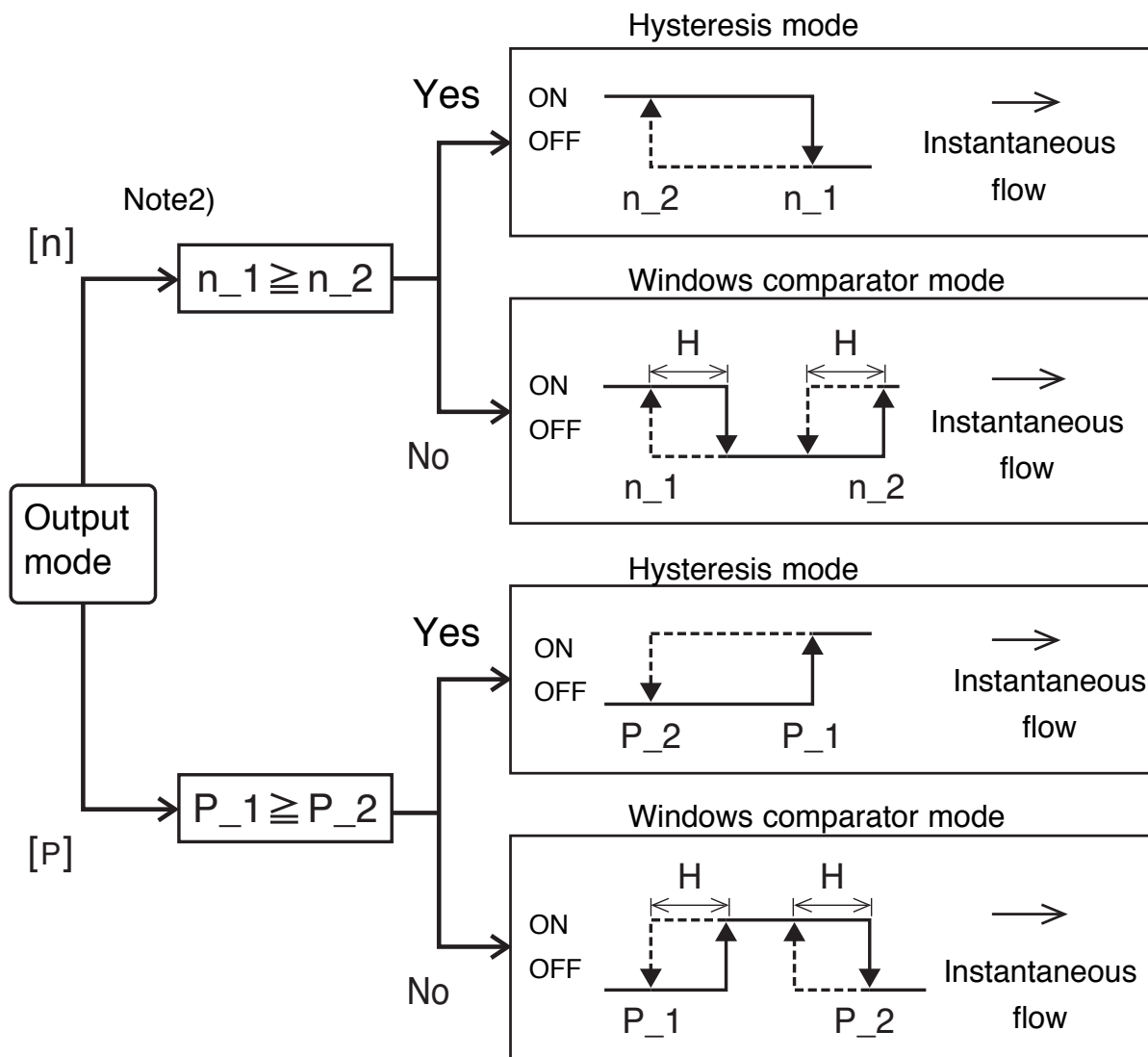
**Setting Procedure** : Check installation condition and wiring and set as below



# OUT1 Output Specifications

## Instantaneous switch output (oU1\_0)

See "Flow rate setting mode" to input setting value.

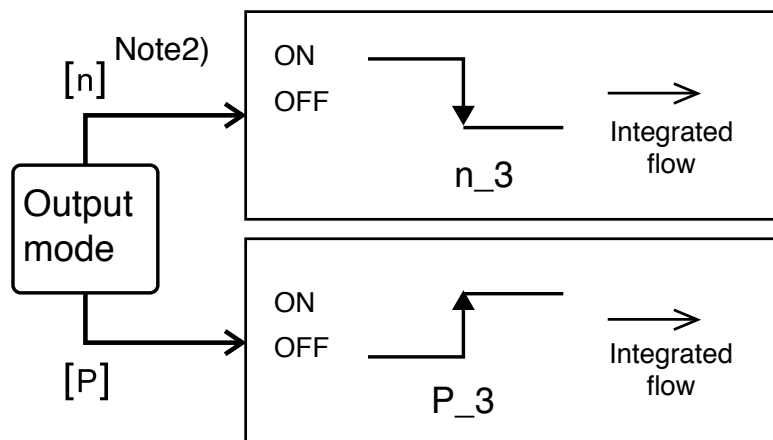


H : Hysteresis  
n : Reverse  
P : Non-reverse

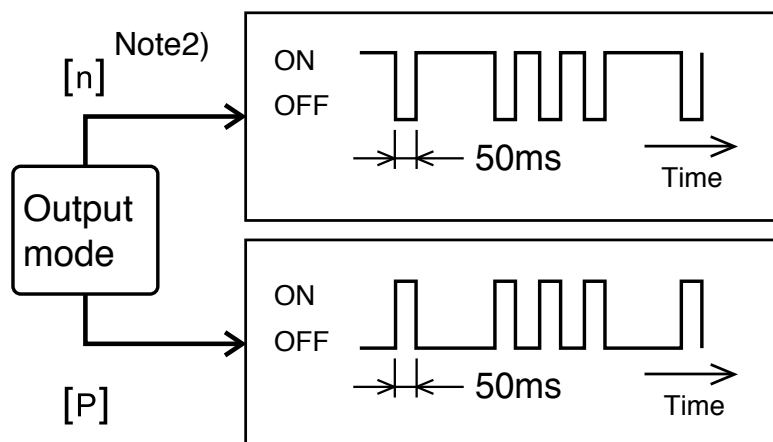
## OUT1 Output Specifications (continue)

### Integration switch output (oU1\_1)

See "Flow rate setting mode" to input setting value.



### Integration Pulse output(oU1\_2)



Flow rate per pulse      Note1)

| Display | Intrgrated flow             |
|---------|-----------------------------|
| U_1     | 100L/pulse                  |
| U_2     | 10.0 ft <sup>3</sup> /pulse |

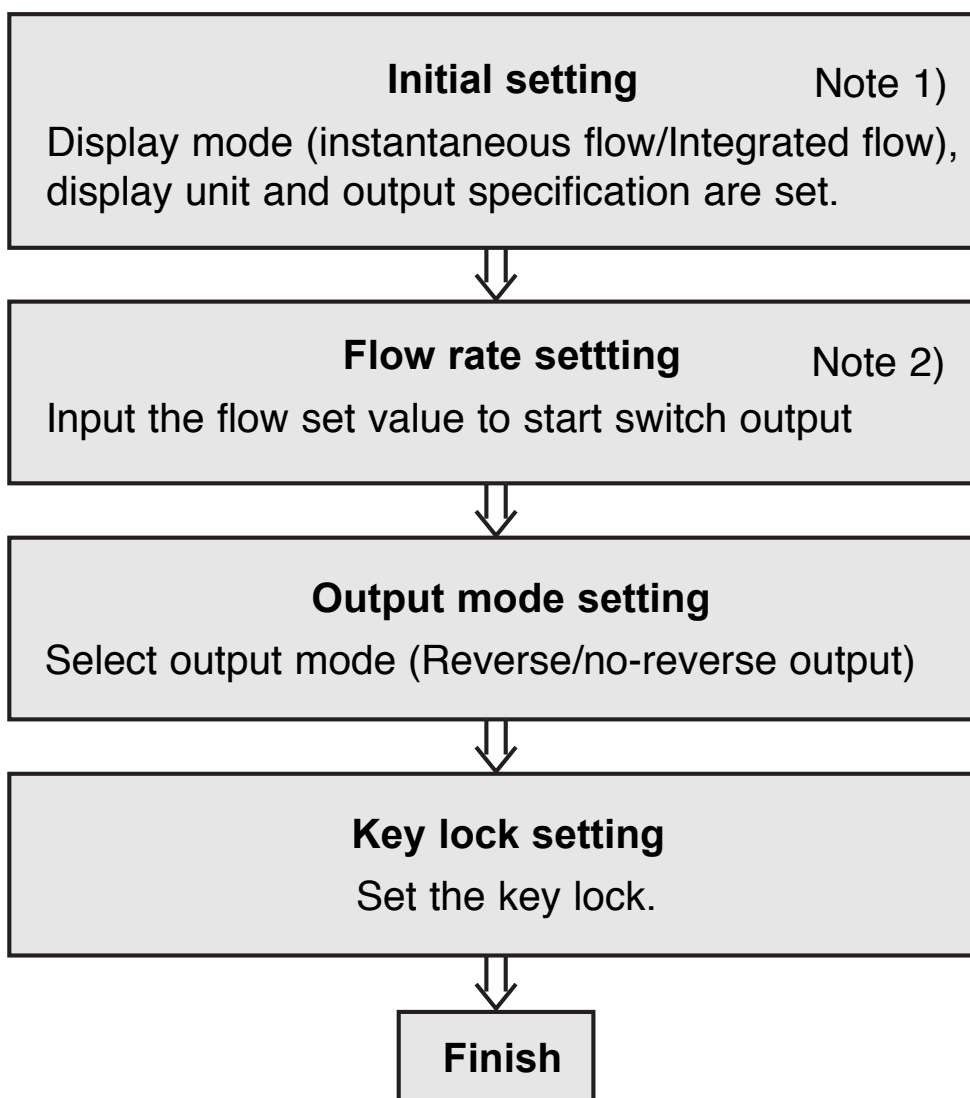
Note1) Unit selection function type

(Unit is fixed to SI unit for the type without this function)

Note2) Reversed output is assigned at shipment.

# Function Setting

## 1. Initial setting mode



Note 1) Display unit setting is not available when the model indication specifies the unit as "-M" (fixed units).

Note 2) It does not go into Flow rate setting mode when the integration pulse output [oU1\_2] is selected as output specification.

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## Function Setting (continue)

### 2. Display selecting mode

d\_1

Select to display either instantaneous flow or integrated flow. Press ▲ button to select desired flow, then press SET button.

[d\_1] instantaneous flow, [d\_2] integrated flow.

### 3. Display unit selecting mode

Display unit can be selected when the units selection option is specified. -M means the unit is fixed to SI units, so it does not enter into Display unit selecting mode.

#### Display unit selecting mode

(When Unit spec. in Model Indication is without "-M")

Unit can be selected from that of Instantaneous flow or integrated flow. The unit is changed by pressing ▲ button.

It will be set up if the SET button is pressed.

If the MODE button is pressed instead of the SET button, it will move to [F\_3].

| Display | Instantaneous flow | Integrated flow                                                                         |
|---------|--------------------|-----------------------------------------------------------------------------------------|
| U_1     | L/min              | L, m <sup>3</sup> , m <sup>3</sup> x 10 <sup>3</sup>                                    |
| U_2     | CFM                | ft <sup>3</sup> , ft <sup>3</sup> x 10 <sup>3</sup> , ft <sup>3</sup> x 10 <sup>6</sup> |

### 4. Output specification selecting mode

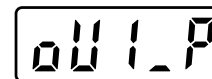
oU1\_0

To set OUT1 Output specifications.

Press ▲ button to select OUT1 output mode, then press SET button. [oU1\_0] indicates instantaneous switch output, [oU1\_1] indicates Integrated switch output, [oU1\_2] indicates Integrated pulse output. Set the flow rate set value after selecting OUT1 output mode. Flow rate setting is not required when selecting integrated pulse output [oU1\_2].

## 5. Output method selecting mode

To set OUT1 output mode. Reverse output and non-reverse output modes are available.



\* Press ▲ button to select the mode from reverse output or non-reverse output. Press SET button to set.

[oU1\_n] indicates reverse output mode, [oU1\_P] indicates non-reverse output mode.

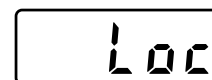
Press MODE button instead of SET button to move to [F\_5].

## 6. Key lock mode

Prevents wrong operation such as unintentional change of set value.

### LOCK

- Press SET button, and the display changes from [F\_5] to [unL].
- Press ▲ button to set the display to [Loc].
- Press MODE button to move to [F\_6], or to [F\_7] if [oU1\_2] integrated pulse output is selected.
- Setting is completed by pressing SET button.

### RELEASE

- Press MODE button longer than 3 sec. at the normal mode to display [F\_5], then press SET button.
- Press ▲ button to display [unL].
- Setting is completed by pressing SET button.

## Function Setting (continue)

### 7. Flow rate setting mode

Input the flow rate set value. Input method depends on OUT1 output specification. The flow switch does not go into flow rate setting mode when the [oU1\_2] integrated pulse output is selected for OUT1.

#### Instantaneous switch output (oU1\_0)

1. Press **SET** button to select [n\_1] ([P\_1]) set value.  
[n\_1] and the set value display alternately in reverse output mode. ([P\_1] and the set value display alternately in non-reverse output mode).



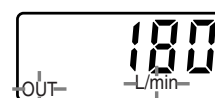
2. Select set value by **▲** button or **▼** button.  
**▲** button to increase value, **▼** button to reduce.

3. Press **SET** button to select [n\_2] ([P\_2]) set value.  
[n\_2] and the set value display alternately in reverse output mode. ([P\_2] and the set value display alternately in non-reverse output mode).
4. Select the set value by **▲** and **▼** button as above.
5. Press **SET** button to set the value.



6. Window comparator mode:  $n_1 < n_2$  ( $P_1 < P_2$ )  
[HIS] and hysteresis set value display alternately.
  - Press **SET** button after selecting hysteresis with **▲** or **▼** button.
  - **▲** button to increase the value, **▼** button to reduce.
  - Hysteresis value is adjustable from 0 to 3% of rated flow value. If the difference between  $n_1$  ( $P_1$ ) and  $n_2$  ( $P_2$ ) is less than 6% of rated flow, the max. value of hysteresis is half of the difference between  $n_1$  ( $P_1$ ) and  $n_2$  ( $P_2$ ).
7. Hysteresis mode :  $n_1 \geq n_2$  ( $P_1 \geq P_2$ )
  - Hysteresis value is not set.

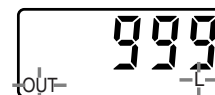
The hysteresis is determined by the difference between  $n_1$  and  $n_2$  ( $P_1$  and  $P_2$ ).



## Integration switch output (oU1\_1)

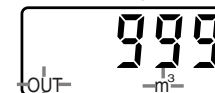
The value can be set up to 9999[m<sup>3</sup> x 10<sup>3</sup>], 999[m<sup>3</sup>], 999[L].  
which represents 9,999,999,999L

1. Press **SET** button to input the set value in the digit of [L]. [n\_3]([P\_3]) and the set value display alternately and "OUT" and "L" are flashing.



\* Press **SET** button longer than 2 sec. to complete setting.

2. Select set value with **▲** and **▼** button. **▲** button to increase, **▼** button to reduce.



3. Press **SET** button to input the set value in the digit of [m<sup>3</sup>]. [n\_3] ([P\_3]) and the set value display alternately and "OUT" and "m<sup>3</sup>" are flashing.

\* Press **SET** button longer than 2 sec. to complete setting.



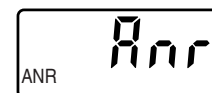
4. Select the set value by **▲** and **▼** button as above.
5. Press **SET** button to input the set value in the digit of [m<sup>3</sup> x 10<sup>3</sup>]. [n\_3] ([P\_3]) and the set value display alternately, and "OUT" and "m<sup>3</sup> x 10<sup>3</sup>" are flashing.

\* Press **SET** button longer than 2 sec. to complete setting.

6. Select the set value by **▲** and **▼** button as above.
7. Press **SET** button to return to the status of 1. above.  
Press **SET** button longer than 2 sec. to complete setting.

## 8. Flow conversion mode

Displays air flow converted during standard condition  
(Anr : 20°C, 101.3kPa, 65%RH[ANR]), or normal condition  
(nor : 0°C, 101.3kPa).



1. Press **SET** button, and select with **▲** button. [Anr] indicates standard condition, [nor] normal condition.
2. Press **SET** button or **MODE** button to complete the setting.

## Other Functions

### Flow display check

#### Check integrated flow when instantaneous flow is displayed

Integrated flow is displayed only during ▼ button is pressed.

(Returns to instantaneous flow when releasing ▼ button.)

\* The unit of integrated flow is changed as [L] → [m<sup>3</sup>] → [m<sup>3</sup> × 10<sup>3</sup>] → [L] if press ▲ button is pressed while pressing ▼ button.

#### Check instantaneous flow when integrated flow is displayed

Instantaneous flow is displayed only during ▼ button is pressed.

(Returns to integrated flow when releasing ▼ button.)

### Change the unit of integrated flow display

To set the integrated flow display unit while integrated flow is displayed.

1. Unit flashes by pressing ▲ button.
2. The unit is changed as [L] → [m<sup>3</sup>] → [m<sup>3</sup> × 10<sup>3</sup>] → [L] by pressing ▲ button.
3. Unit stops flashing when the unit is selected by pressing SET button.

\* The unit stops flashing if no buttons are pressed for 5 seconds.  
The Integrated flow display unit is not changed.

### Clear the Integrated Value

The Integrated value is cleared by pressing both the ▲ and ▼ buttons simultaneously for 5 seconds.

## Initialize the Set Value

All of the settings can be returned to initialized values at shipment. Press ▲ and ▼ button simultaneously for longer than 2 seconds during initial setting mode [F\_0]. Press SET button after [F\_00] appears.

\* Setting is returned to [F\_0] without change by pressing MODE button.

See below for settings at shipment.

Display setting : Instantaneous flow (d\_1)

Unit setting : L/min (U\_1)

Output spec. : Instantaneous switch output (oU1\_0)

Output mode : Reverse output (oU1\_n)

Flow setting value : Instantaneous flow, Intermediate value of full-range/Integrated flow : 0

Key lock mode : Unlocked (unL)

Flow conversion condition : 20°C, 101.3kPa, 65%RH[ANR](Anr)

## Error Display and Troubleshooting

This function displays error location and nature. When a problem or an error occurs, take the following actions.

| LED display | Error Nature                                        | Troubleshooting                                        |
|-------------|-----------------------------------------------------|--------------------------------------------------------|
| Err_1       | A current exceeding 80mA is flowing to OUT1.        | Turn the power off. Check the load and wiring of OUT1. |
| Err_3       | Set data has been changed due to an unknown reason. | Reset all the data.                                    |
| - - - -     | The fluid flow is higher than rated value.          | Reduce the flow to below the rated value.              |

To reset display of Error 1 and 3, press ▲ and ▼ button simultaneously.

## Contact

|            |                   |                |                   |
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