## 3-Screen Display

## Digital Flow Monitor C $\subset$ 旨 (ants

## Can measure up to 12,000 L/min!

## While checking the measured value,

 Main screen Measured value (Current flow value)settings are possible.


## Current consumption 25 mA or less

## Applicable Flow Switch Variations




P-E17-3 ${ }^{8}$

## Visualization of Settings

The sub screen (label) shows the item to be set.

Current model



## Easy Screen Switching

It is possible to change the settings while checking the measured value.


The sub screen can be switched by pressing the up/down buttons.


## Input Range Selection (for Pressure/Flow rate)

The displayed value to the sensor input can be set as required. (Voltage input: 1 to $5 \mathrm{~V} /$ Current input: 4 to 20 mA )
Pressure switch/Flow switch can be displayed.

$\begin{array}{lc}\text { Voltage input } 1 \mathrm{~V} & 5 \mathrm{~V} \\ \text { Current input } 4 \mathrm{~mA} & 20 \mathrm{~mA}\end{array}$
■ Pressure Sensor for General Fluids/PSE570


|  | A | B |
| :--- | ---: | ---: |
| PSE570 | 0 | 1,000 |
| PSE573 | -100 | 100 |
| PSE574 | 0 | 500 |


| Set A and B to the values shown |
| :--- |
| in the table above. |

in the table above.

## Functions

- Output operation
- Simple setting mode
- Display color
- Delay time setting
- Digital filter setting
- FUNC output switching function
- Selectable analog output function
- External input function
- Forced output function
- Accumulated value hold
- Peak/Bottom value display
- Setting of security code
- Keylock function
- Reset to the default settings


## Simple 3-Step Setting

When the $S$ button is pressed and the set value (P_1) is being displayed, the set value (threshold value) can be set. When the $S$ button is pressed and the hysteresis $\left(H_{-} 1\right)$ is being displayed, the hysteresis value can be set.


## Convenient Functions

Copy function
The settings of the master monitor can be copied to the slave monitors.


## Power-saving function

Power consumption is reduced by turning off the monitor.

| Current consumption*1 | Reduction rate*2 |
| :---: | :---: |
| 25 mA or less | Approx. $50 \%$ reduction |

*1 During normal operation *2 In power-saving mode

## Compact \& Lightweight

Compact: Max. 6 mm shorter Lightweight: Max. 5 g lighter ( $\mathbf{3 0} \mathbf{g} \boldsymbol{\rightarrow} \mathbf{2 5}$ g)


## Mounting

Bracket configuration allows for mounting in four orientations.


3-Screen Display
Digital Flow Monitor PFG300 Series


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

| Model |  |  | PFG300 series |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Applicable SMC flow switch | Model |  | PF3A701H | PF3A702H | PF3A703H | PF3A706H | PF3A712H |
|  | Rated flow range*1 |  | 10 to $1000 \mathrm{~L} / \mathrm{min}$ | 20 to $2000 \mathrm{~L} / \mathrm{min}$ | 30 to $3000 \mathrm{~L} / \mathrm{min}$ | 60 to $6000 \mathrm{~L} / \mathrm{min}$ | 120 to $12000 \mathrm{~L} / \mathrm{min}$ |
| Flow | Set point range | Instantaneous flow | -50 to $1050 \mathrm{~L} / \mathrm{min}$ | -100 to $2100 \mathrm{~L} / \mathrm{min}$ | -150 to $3150 \mathrm{~L} / \mathrm{min}$ | -300 to $6300 \mathrm{~L} / \mathrm{min}$ | -600 to $12600 \mathrm{~L} / \mathrm{min}$ |
|  |  | Accumulated flow | 0 to 999,999,999,990 L |  | 0 to 999,999,999,990 L | 0 to 999,999,999,900 L |  |
|  | Smallest settable increment | Instantaneous flow | $1 \mathrm{~L} / \mathrm{min}$ |  | $2 \mathrm{~L} / \mathrm{min}$ | $5 \mathrm{~L} / \mathrm{min}$ | $10 \mathrm{~L} / \mathrm{min}$ |
|  |  | Accumulated flow | 10 L |  | 10 L | 100 L |  |
|  | Accumulated volume per pulse (Pulse width $=50 \mathrm{~ms}$ ) |  | $10 \mathrm{~L} / \mathrm{pulse}$ |  | $10 \mathrm{~L} / \mathrm{pulse}$ | $100 \mathrm{~L} / \mathrm{pulse}$ |  |
|  | Accumulated value hold function*3 |  | Intervals of 2 or 5 minutes can be selected. The stored accumulated flow is held even when the power supply is OFF. |  |  |  |  |
| Electrical | Power supply voltage |  | 12 to 24 VDC $\pm 10 \%$ (24 VDC when the PF3A7 $\square \mathrm{H}$ is connected) |  |  |  |  |
|  | Current consumption |  | 25 mA or less |  |  |  |  |
|  | Protection |  | Polarity protection |  |  |  |  |
| Accuracy | Display accuracy |  | $\pm 0.5 \%$ F.S. $\pm$ Minimum display unit (Ambient temperature of $25^{\circ} \mathrm{C}$ ) |  |  |  |  |
|  | Analog output accuracy |  | $\pm 0.5 \%$ F.S. (Ambient temperature of $25^{\circ} \mathrm{C}$ ) |  |  |  |  |
|  | Repeatability |  | $\pm 0.1 \%$ F.S. $\pm$ Minimum display unit |  |  |  |  |
|  | Temperature characteristics |  | $\pm 0.5 \%$ F.S. (Ambient temperature: 0 to $50^{\circ} \mathrm{C}, 25^{\circ} \mathrm{C}$ standard) |  |  |  |  |
| Switch output | Output type |  | Select from NPN or PNP open collector output. |  |  |  |  |
|  | Output mode |  | Select from Hysteresis, Window comparator, Accumulated output, Accumulated pulse output, Error output, or Switch output OFF modes. |  |  |  |  |
|  | Switch operation |  | Select from Normal or Reversed output. |  |  |  |  |
|  | Max. load current |  | 80 mA |  |  |  |  |
|  | Max. applied voltage (NPN only) |  | 30 VDC |  |  |  |  |
|  | Internal voltage drop (Residual voltage) |  | NPN output: 1 V or less (at load current of 80 mA ), PNP output: 1.5 V or less (at load current of 80 mA ) |  |  |  |  |
|  | Response time*2 |  | 3 ms or less |  |  |  |  |
|  | Delay time*2 |  | Select from $0.00,0.05$ to 0.1 s (increment of 0.01 s ), 0.1 to 1.0 s (increment of 0.1 s ), 1 to 10 s (increment of 1 s ), $20 \mathrm{~s}, 30 \mathrm{~s}, 40 \mathrm{~s}, 50 \mathrm{~s}$, or 60 s . |  |  |  |  |
|  | Hysteresis*4 |  | Variable from 0 |  |  |  |  |
|  | Protection |  | Short circuit protection |  |  |  |  |
| Analog output*5 | Output type |  | Voltage output: 1 to $5 \mathrm{~V}, 0$ to 10 V (only when the power supply voltage is 24 VDC ) Current output: 4 to 20 mA ( $0 \mathrm{~L} / \mathrm{min}$ to maximum value of the rated flow) |  |  |  |  |
|  | Impedance | Voltage output | Output impedance: $1 \mathrm{k} \Omega$ |  |  |  |  |
|  |  | Current output | Maximum load impedance: $300 \Omega$ (at power supply voltage of 12 V ), $600 \Omega$ (at power supply voltage of 24 VDC ) |  |  |  |  |
|  | Response time*2 |  | 50 ms or less |  |  |  |  |
| External input*6 | External input |  | Input voltage: 0.4 V or less (Reed or Solid state) for 30 ms or longer |  |  |  |  |
|  | Input mode |  | Select from Accumulated value external reset or Peak/Bottom value reset. |  |  |  |  |
| Sensor input | Input type |  | Voltage input: 1 to 5 VDC (Input impedance: $1 \mathrm{M} \Omega$ ), Current input: 4 to 20 mADC (Input impedance: $51 \Omega$ ) ( $0 \mathrm{~L} / \mathrm{min}$ to maximum value of the rated flow) |  |  |  |  |
|  | Connection method |  | Connector (e-CON) |  |  |  |  |
|  | Protection |  | Over voltage protection (Up to 26.4 VDC) |  |  |  |  |
| Display | Display mode |  | Select from Instantaneous flow or Accumulated flow. |  |  |  |  |
|  | Unit*7 | Instantaneous flow | L/min, cfm ( $\mathrm{ft}^{3} / \mathrm{min}$ ) |  |  |  |  |
|  |  | Accumulated flow | $\mathrm{L}, \mathrm{ft}{ }^{3}, \mathrm{~L} \times 10^{6}, \mathrm{ft}^{3} \times 10^{6}$ |  |  |  |  |
|  | Display range | Instantaneous flow | -50 to $1050 \mathrm{~L} / \mathrm{min}$ | -100 to $2100 \mathrm{~L} / \mathrm{min}$ | -150 to $3150 \mathrm{~L} / \mathrm{min}$ | -300 to $6300 \mathrm{~L} / \mathrm{min}$ | -600 to $12600 \mathrm{~L} / \mathrm{min}$ |
|  |  | Accumulatedilow*9 | 0 to 999,999,999,990 L |  | 0 to 999,999,999,990 L | 0 to 999,999,999,900 L |  |
|  | Minimum | Instantaneous flow |  |  | $2 \mathrm{~L} / \mathrm{min}$ | $5 \mathrm{~L} / \mathrm{min}$ | $10 \mathrm{~L} / \mathrm{min}$ |
|  | display unit | Accumulated flow | 10 L |  | 10 L | 100 L |  |
|  | Display type |  | LCD |  |  |  |  |
|  | Number of displays |  | 3-screen display (Main screen, Sub screen) |  |  |  |  |
|  | Display color |  | 1) Main screen: Red/Green, 2) Sub screen: Orange |  |  |  |  |
|  | Number of display digits |  | 1) Main screen: 5 digits (7 segments), 2) Sub screen: 9 digits (7 segments) |  |  |  |  |
|  | Indicator LED |  | LED ON when switch output is ON. OUT1/2: Orange |  |  |  |  |
| Digital filter*8 |  |  | Select from $0.00,0.05$ to 0.1 s (increment of 0.01 s ), 0.1 to 1.0 s (increment of 0.1 s ), 1 to 10 s (increment of 1 s ), 20 s, or 30 s . |  |  |  |  |
| Environment | Enclosure |  | IP40 |  |  |  |  |
|  | Withstand voltage |  | 1000 VAC for 1 minute between terminals and housing |  |  |  |  |
|  | Insulation resistance |  | $50 \mathrm{M} \Omega$ or more ( 500 VDC measured via megohmmeter) between terminals and housing |  |  |  |  |
|  | Operating temperature range |  | Operating: 0 to $50^{\circ} \mathrm{C}$, Stored: -10 to $60^{\circ} \mathrm{C}$ (No condensation or freezing) |  |  |  |  |
|  | Operating humidity range |  | Operating/Stored: 35 to 85\% RH (No condensation or freezing) |  |  |  |  |
| Standards |  |  | CE/UKCA marking |  |  |  |  |
| Weight | Body |  | 25 g (Excluding the power supply/output connection lead wire) |  |  |  |  |
|  | Lead wire with connector |  | +39 g |  |  |  |  |
| *1 Rated flow range of the applicable flow switch *2 Value without digital filter (at 0.00 s ) |  |  | *4 If the flow fluctuates around the set value, the width for setting more than the fluctuating width needs to be set. Otherwise, chattering will occur. |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| *3 When using the accumulated value hold function, use the operating conditions to calculate the product life, and do not exceed it. The maximum access limit of the memory device is 1.5 million times. If the product is operated 24 hours per day, the product life will be as follows: <br> - 5 min interval: life is calculated as $5 \mathrm{~min} \times 1.5$ million $=7.5$ million $\mathrm{min}=14.3$ years <br> - 2 min interval: life is calculated as $2 \mathrm{~min} \times 1.5$ million $=3$ million $\min =5.7$ years If the accumulated value external reset is repeatedly used, the product life will be shorter than the calculated life. <br> *5 Setting is only possible for models with analog output. <br> *6 Setting is only possible for models with external input. <br> *7 Setting is only possible for models with the units selection function. <br> *8 The response time indicates when the set value is $90 \%$ in relation to the step input. <br> *9 The accumulated flow display is the upper 6-digit and lower 6-digit (total of 12 digits) display. When the upper digits are displayed, $\times 10^{6}$ lights up. <br> * Products with tiny scratches, marks, or display color or brightness variations which do not affect the performance of the product are verified as conforming products. |  |  |  |  |  |  |  |
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For flow switch precautions and specific product precautions, refer to the "Operation Manual" on the SMC website. Click here for details.


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


## Specifications

For flow switch precautions and specific product precautions, refer to the "Operation Manual" on the SMC website. Click here for details.

| Model |  |  | PFG300 series |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Applicable SMC flow switch | Model |  | PF2M701 | PF2M702 | PF2M705 | PF2M710 | PF2M725 | PF2M750 | PF2M711 | PF2M721 |
|  | Rated flow range*1 |  | 0.01 to $1 \mathrm{~L} / \mathrm{min}$ | 0.02 to $2 \mathrm{~L} / \mathrm{min}$ | 0.05 to $5 \mathrm{~L} / \mathrm{min}$ | 0.1 to $10 \mathrm{~L} / \mathrm{min}$ | 0.3 to $25 \mathrm{~L} / \mathrm{min}$ | 0.5 to $50 \mathrm{~L} / \mathrm{min}$ | 1 to $100 \mathrm{~L} / \mathrm{min}$ | 2 to $200 \mathrm{~L} / \mathrm{min}$ |
| Flow | Set point range | Instantaneous flow | -0.05 to 1.05 L/min | -0.1 to $2.1 \mathrm{~L} / \mathrm{min}$ | -0.25 to $5.25 \mathrm{~L} / \mathrm{min}$ | -0.5 to 10.5 L/min | -1.3 to $26.3 \mathrm{~L} / \mathrm{min}$ | -2.5 to $52.5 \mathrm{~L} / \mathrm{min}$ | -5 to $105 \mathrm{~L} / \mathrm{min}$ | -10 to $210 \mathrm{~L} / \mathrm{min}$ |
|  |  | Accumulated flow | 0 to 99,999,999,999.9 L |  |  |  | 0 to 999,999,999,999 L |  |  |  |
|  | Smallest settable increment | Instantaneous flow | $0.01 \mathrm{~L} / \mathrm{min}$ |  |  |  | $0.1 \mathrm{~L} / \mathrm{min}$ |  |  | $1 \mathrm{~L} / \mathrm{min}$ |
|  |  | Accumulated flow | 0.1 L |  |  |  | 1 L |  |  |  |
|  | Accumulated volume per pulse (Pulse width $=50 \mathrm{~ms}$ ) |  | 0.1 L/pulse |  |  |  |  |  | $1 \mathrm{~L} /$ pulse |  |
|  | Accumulated value hold function*3 |  | Intervals of 2 or 5 minutes can be selected. The stored accumulated flow is held even when the power supply is OFF. |  |  |  |  |  |  |  |
| Electrical | Power supply voltage |  | 12 to 24 VDC $\pm 10 \%$ |  |  |  |  |  |  |  |
|  | Current consumption |  | 25 mA or less |  |  |  |  |  |  |  |
|  | Protection |  | Polarity protection |  |  |  |  |  |  |  |
| Accuracy | Display accuracy |  | $\pm 0.5 \%$ F.S. $\pm$ Minimum display unit (Ambient temperature of $25^{\circ} \mathrm{C}$ ) |  |  |  |  |  |  |  |
|  | Analog output accuracy |  | $\pm 0.5 \%$ F.S. (Ambient temperature of $25^{\circ} \mathrm{C}$ ) |  |  |  |  |  |  |  |
|  | Repeatability |  | $\pm 0.1 \%$ F.S. $\pm 1$ digit |  |  |  |  |  |  |  |
|  | Temperature characteristics |  | $\pm 0.5 \%$ F.S. (Ambient temperature: 0 to $50^{\circ} \mathrm{C}, 25^{\circ} \mathrm{C}$ standard) |  |  |  |  |  |  |  |
| Switch output | Output type |  | Select from NPN or PNP open collector output. |  |  |  |  |  |  |  |
|  | Output mode |  | Select from Hysteresis, Window comparator, Accumulated output, Accumulated pulse output, Error output, or Switch output OFF modes. |  |  |  |  |  |  |  |
|  | Switch operation |  | Select from Normal or Reversed output. |  |  |  |  |  |  |  |
|  | Max. load current |  | 80 mA |  |  |  |  |  |  |  |
|  | Max. applied voltage (NPN only) |  | 30 VDC |  |  |  |  |  |  |  |
|  | Internal voltage drop (Residual voltage) |  | NPN output: 1 V or less (at load current of 80 mA ), PNP output: 1.5 V or less (at load current of 80 mA ) |  |  |  |  |  |  |  |
|  | Response time*2 |  | 3 ms or less |  |  |  |  |  |  |  |
|  | Delay time*2 |  | Select from $0.00,0.05$ to 0.1 s (increment of 0.01 s ), 0.1 to 1.0 s (increment of 0.1 s ), 1 to 10 s (increment of 1 s ), $20 \mathrm{~s}, 30 \mathrm{~s}, 40 \mathrm{~s}, 50 \mathrm{~s}, 0$ or 60 s |  |  |  |  |  |  |  |
|  | Hysteresis*4 |  | Variable from 0 |  |  |  |  |  |  |  |
|  | Protection |  | Short circuit protection |  |  |  |  |  |  |  |
| Analog output*5 | Output type |  | Voltage output: 1 to 5 V , 0 to 10 V (only when the power supply voltage is 24 VDC) Current output: 4 to 20 mA ( $0 \mathrm{~L} / \mathrm{min}$ to maximum value of the rated flow) |  |  |  |  |  |  |  |
|  | Impedance | Voltage output | Output impedance: $1 \mathrm{k} \Omega$ |  |  |  |  |  |  |  |
|  |  | Current output | Maximum load impedance: $300 \Omega$ (at power supply voltage of 12 V ), $600 \Omega$ (at power supply voltage of 24 VDC ) |  |  |  |  |  |  |  |
|  | Response time*2 |  | 50 ms or less |  |  |  |  |  |  |  |
| External input*6 | External input |  | Input voltage: 0.4 V or less (Reed or Solid state) for 30 ms or longer |  |  |  |  |  |  |  |
|  |  |  | Select from Accumulated value external reset or Peak/Bottom value reset. |  |  |  |  |  |  |  |
| Sensor input | Input mode <br> Input type |  | Voltage input: 1 to 5 VDC (Input impedance: $1 \mathrm{M} \Omega$ ), Current input: 4 to 20 mA DC (Input impedance: $51 \Omega$ ) <br> ( $0 \mathrm{~L} / \mathrm{min}$ to maximum value of the rated flow) |  |  |  |  |  |  |  |
|  | Connection method |  | Connector (e-CON) |  |  |  |  |  |  |  |
|  | Protection |  | Over voltage protection (Up to 26.4 VDC) |  |  |  |  |  |  |  |
| Display | Display mode |  | Select from Instantaneous flow or Accumulated flow. |  |  |  |  |  |  |  |
|  | Unit*7 | Instantaneous flow | L/min, cfm ( $\mathrm{ft}^{3} / \mathrm{min}$ ) |  |  |  |  |  |  |  |
|  |  | Accumulated flow | $\mathrm{L}, \mathrm{ft}^{3}, \mathrm{~L} \times 10^{6}, \mathrm{ft}^{3} \times 10^{6}$ |  |  |  |  |  |  |  |
|  | Display range | Instantaneous flow | 0 to $99,999,999,999.9 \mathrm{~L}$ |  |  |  | -1.3 to 26.3 L/min | -2.5 to $52.5 \mathrm{~L} / \mathrm{min}$ | -5 to $105 \mathrm{~L} / \mathrm{min}$ | -10 to $210 \mathrm{~L} / \mathrm{min}$ |
|  |  | Accumulatediow ${ }^{\text {a }}$ |  |  |  |  | 0 to 999,999,999,999 L |  |  |  |
|  | Minimum display unit | Instantaneous flow |  | 0.01 L | L/min |  |  | $0.1 \mathrm{~L} / \mathrm{min}$ |  | $1 \mathrm{~L} / \mathrm{min}$ |
|  |  | Accumulated flow |  | 0.1 | 1 L |  | 1 L |  |  |  |
|  | Display type |  | LCD |  |  |  |  |  |  |  |
|  | Number of displays |  | 3-screen display (Main screen, Sub screen) |  |  |  |  |  |  |  |
|  | Display color |  | 1) Main screen: Red/Green, 2) Sub screen: Orange |  |  |  |  |  |  |  |
|  | Number of display digits |  | 1) Main screen: 5 digits ( 7 segments), 2) Sub screen: 9 digits ( 7 segments) |  |  |  |  |  |  |  |
|  | Indicator LED |  | LED ON when switch output is ON OUT1/2: Orange |  |  |  |  |  |  |  |
| Digital filter*8 |  |  | Select from $0.00,0.05$ to 0.1 s (increment of 0.01 s ), 0.1 to 1.0 s (increment of 0.1 s ), 1 to 10 s (increment of 1 s ), 20 s, or 30 s |  |  |  |  |  |  |  |
| Environment | Enclosure |  | IP40 |  |  |  |  |  |  |  |
|  | Withstand voltage |  | 1000 VAC for 1 minute between terminals and housing |  |  |  |  |  |  |  |
|  | Insulation resistance |  | $50 \mathrm{M} \Omega$ or more ( 500 VDC measured via megohmmeter) between terminals and housing |  |  |  |  |  |  |  |
|  | Operating temperature range |  | Operating: 0 to $50^{\circ} \mathrm{C}$, Stored: -10 to $60^{\circ} \mathrm{C}$ (No condensation or freezing) |  |  |  |  |  |  |  |
|  | Operating humidity range |  | Operating/Stored: 35 to 85\% RH (No condensation or freezing) |  |  |  |  |  |  |  |
| Standards |  |  | CE/UKCA marking (EMC directive/RoHS directive) |  |  |  |  |  |  |  |
| Weight | Body |  | 25 g (Excluding the power supply/output connection lead wire) |  |  |  |  |  |  |  |
|  | Lead wire with connector |  | +39 g |  |  |  |  |  |  |  |
| 1 Rated flow range of the applicable flow switch <br> *2 Value without digital filter (at 0.00 s ) <br> *3 When using the accumulated value hold function, use the operating conditions to calculate the product life, and do not exceed it. The maximum access limit of the memory device is 1.5 million times. If the product is operated 24 hours per day, the product life will be as follows: <br> $\cdot 5$ min interval: life is calculated as $5 \mathrm{~min} \times 1.5$ million $=7.5$ million $\mathrm{min}=14.3$ years <br> $\cdot 2$ min interval: life is calculated as $2 \mathrm{~min} \times 1.5$ million $=3$ million $\mathrm{min}=5.7$ years If the accumulated value external reset is repeatedly used, the product life will be shorter than the calculated life. <br> *4 If the flow fluctuates around the set value, the width for setting more than the fluctuating width needs to be set. Otherwise, chattering will occur. <br> *5 Setting is only possible for models with analog output. <br> *6 Setting is only possible for models with external input. <br> *7 Setting is only possible for models with the units selection function. <br> *8 The response time indicates when the set value is $90 \%$ in relation to the step input. <br> *9 The accumulated flow display is the upper 6-digit and lower 6-digit (total of 12 digits) display. When the upper digits are displayed, $\times 10^{6}$ lights up. <br> * Products with tiny scratches, marks, or display color or brightness variations which do not affect the performance of the product are verified as conforming products. |  |  |  |  |  |  |  |  |  |  |
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Internal Circuits and Wiring Examples

-RT: NPN ( 2 outputs) + Analog voltage output -SV: NPN (2 outputs) + Analog current output

-RT: NPN (2 outputs) + External input -SV: NPN (2 outputs) + External input


Accumulated pulse output wiring examples

-XY
-RT
-SV
PNP (2 outputs) + Copy function

-RT: PNP (2 outputs) + Analog voltage output -SV: PNP (2 outputs) + Analog current output

-RT: PNP (2 outputs) + External input
-SV: PNP (2 outputs) + External input


PNP (2 outputs) type


## PFG300 Series

## Dimensions



## Bracket A

(Part no.: ZS-46-A1)


## Bracket B

(Part no.: ZS-46-A2)


Bracket configuration allows for mounting in four orientations.


## Dimensions

## Panel mount adapter

(Part no.: ZS-46-B)


## Panel mount adapter + Front protection cover

 (Part no.: ZS-46-D)

Power supply/output connection lead wire (Part no.: ZS-46-5L)


Cable Specifications

| Conductor cross section |  | $0.15 \mathrm{~mm}^{2}$ (AWG26) |
| :--- | :--- | :---: |
| Insulator | Outside diameter | 1.0 mm |
|  | Color | Brown, Blue, Black, White, Gray (5-core) |
| Sheath | Finished outside diameter | $\varnothing 3.5$ |

Sensor connector
(Part no.: ZS-28-CA-4)

| Pin no. | Terminal |
| :---: | :---: |
| 1 | DC $(+)$ |
| 2 | N.C. |
| 3 | DC $(-)$ |
| 4 | $\mathrm{IN}^{* 1}$ |

*1 1 to 5 V or 4 to 20 mA
(Part no.: ZS-28-C-1)

| Pin no. | Terminal |
| :---: | :---: |
| 1 | DC $(+)$ |
| 2 | N.C. |
| 3 | $\mathrm{DC}(-)$ |
| 4 | $\mathrm{IN}^{* 2}$ |${ }^{* 2} 1$ to 5 V or 4 to 20 mA



## PFG300 Series

## Dimensions

## Panel fitting dimensions

Individual mounting


Multiple (2 pcs. or more) secure mounting <Horizontal>


Panel mount example
<Horizontal>


Panel mount example <Vertical>



Applicable Flow Switch Variations

| Series | Enclosure | Applicable fluid | Rated flow range | Display |
| :---: | :---: | :---: | :---: | :---: |
| PF2M7 <br> Click here for the catalog (PDF). | IP40 | $\begin{gathered} \text { Dry air, } \mathrm{N}_{2} \\ \text { Ar, CO2 } \end{gathered}$ | 0.01 to $1 \mathrm{~L} / \mathrm{min}$ 0.02 to $2 \mathrm{~L} / \mathrm{min}$ 0.05 to $5 \mathrm{~L} / \mathrm{min}$ 0.1 to $10 \mathrm{~L} / \mathrm{min}$ 0.3 to $25 \mathrm{~L} / \mathrm{min}$ 0.5 to $50 \mathrm{~L} / \mathrm{min}$ 1 to $100 \mathrm{~L} / \mathrm{min}$ 2 to $200 \mathrm{~L} / \mathrm{min}$ | 2-color LCD display |
| PFMB <br> Click here for the catalog (PDF). | IP40 | Dry air, N2 | 5 to $500 \mathrm{~L} / \mathrm{min}$ 10 to $1000 \mathrm{~L} / \mathrm{min}$ 20 to $2000 \mathrm{~L} / \mathrm{min}$ | 2-color LCD display |
| PF2MC7 $\square$ (-L) <br> Click here for the catalog (PDF). | IP65 | Dry air, N2 | 5 to $500 \mathrm{~L} / \mathrm{min}$ 10 to $1000 \mathrm{~L} / \mathrm{min}$ 20 to $2000 \mathrm{~L} / \mathrm{min}$ | 3-color LCD display |
| PF3A7 $\square \mathbf{H}$ <br> Click here for the catalog (PDF). | IP65 | Air, $\mathrm{N}_{2}$ | 10 to $1000 \mathrm{~L} / \mathrm{min}$ 20 to $2000 \mathrm{~L} / \mathrm{min}$ 30 to $3000 \mathrm{~L} / \mathrm{min}$ 60 to $6000 \mathrm{~L} / \mathrm{min}$ 120 to $12000 \mathrm{~L} / \mathrm{min}$ | 3-color LCD display |

