3-color display

Digital Flow Switch for Water
Series *PF3W* C€ c ⚡ US

RoHS

How to Order

Remote sensor unit — Output specification/Temperature sensor

Symbol	OUT1 Flow rate	OUT2 Temperature	Temperature sensor
1	Analog 1 to 5 V	—	None
2	Analog 4 to 20 mA	—	None
1T	Analog 1 to 5 V	Analog 1 to 5 V	With temperature sensor

∗ To use in combination with remote monitor (PF3W3 series), select analog output of 1 to 5 V of flow rate (output symbol "-1" or "-1T").
Note) Analog output of 4 to 20 mA with temperature sensor is made to order. (Refer to page 10.)

Remote sensor unit/Unit printed on label

Symbol	Instantaneous flow rate	Temperature
Nil	L/min	°C
G∗	L/min (gal/min)	°C/°F

∗ Under the New Measurement Law, units other than SI (symbol "Nil") cannot be used in Japan.
Note) G: Made to Order
Reference: 1 [L/min] ↔ 0.2642 [gal/min]
1 [gal/min] ↔ 3.785 [L/min]
°F = 9/5°C + 32

Remote sensor unit   **PF3W** **5** **04** ☐ – ☐ **03** – **1T** ☐ – ☐ – ☐

Integrated display   **PF3W** **7** **04** ☐ – ☐ **03** – **AT** ☐ – **M** ☐

Type

5	Remote sensor unit
7	Integrated display

Rated flow range (Flow range)

Symbol	Rated flow range
04	0.5 to 4 L/min
20	2 to 16 L/min
40	5 to 40 L/min
11	10 to 100 L/min
21	50 to 250 L/min

Flow adjustment valve

Symbol	With/without flow adjustment valve	Rated flow range 04	20	40	11	21
Nil	None	●	●	●	●	●
S	Yes	●	●	●	—	—

Note 1) 100 and 250 L/min types with flow adjustment valves are not available.
Note 2) The flow adjustment valve of this product is not suitable for applications which require constant adjustment of flow rate.
Note 1) External input: The accumulated value, peak value, and bottom value can be reset.
Note 2) For units with temperature sensor, OUT2 can be set as either temperature output or flow rate output. Setting when shipped is for temperature output.

Thread type

Nil	Rc
N	NPT
F	G∗

∗ ISO228 equivalent

Port size

Symbol	Port size	Rated flow range 04	20	40	11	21
03	3/8	●	●	—	—	—
04	1/2	—	●	—	—	—
06	3/4	—	—	●	—	—
10	1/1	—	—	—	●	—
12	1 1/4	—	—	—	—	●
14	1 1/2	—	—	—	—	●

Integrated display — Output specification/Temperature sensor

Symbol	OUT1 Flow rate	OUT2 Flow rate	OUT2 Temperature	Temperature sensor
A	NPN	NPN	—	None
B	PNP	PNP	—	None
C	NPN	Analog 1 to 5 V	—	None
D	NPN	Analog 4 to 20 mA	—	None
E	PNP	Analog 1 to 5 V	—	None
F	PNP	Analog 4 to 20 mA	—	None
G	NPN	External input Note 1)	—	None
H	PNP	External input Note 1)	—	None
AT	NPN	(NPN) Note 2)	NPN	With temperature sensor
BT	PNP	(PNP) Note 2)	PNP	With temperature sensor
CT	NPN	(Analog 1 to 5 V) Note 2)	Analog 1 to 5 V	With temperature sensor
DT	NPN	(Analog 4 to 20 mA) Note 2)	Analog 4 to 20 mA	With temperature sensor
ET	PNP	(Analog 1 to 5 V) Note 2)	Analog 1 to 5 V	With temperature sensor
FT	PNP	(Analog 4 to 20 mA) Note 2)	Analog 4 to 20 mA	With temperature sensor

Made to Order

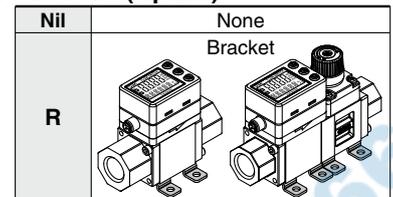| X109	Seal material EPDM
X128	Analog 4 to 20 mA 2 output type Note)
X143	Piping material brass

Note) Applicable only for remote type with temperature sensor (Refer to page 10.)

Calibration certificate (Only flow sensor)

Nil	None
A	With calibration certificate

∗ The certificate is written in both English and Japanese. Integrated display type with temperature sensor can only display flow rate.

Bracket (Option)

Nil	None
R	Bracket

Note) With bracket is not available for 250 L/min type.

Integrated display/Unit specification

Symbol	Instantaneous flow rate	Accumulated flow	Temperature
M	L/min	L	°C
G	gal/min	gal	°C
F	gal/min	gal	°F
J	L/min	L	°F

∗ Under the New Measurement Law, units other than SI (symbol "M") cannot be used in Japan.
Note) G, F, J: Made to Order
Reference: 1 [L/min] ↔ 0.2642 [gal/min]
1 [gal/min] ↔ 3.785 [L/min]
°F = 9/5°C + 32

Lead wire

Nil	N
With lead wire with M8 connector (3 m)	Without lead wire with M8 connector

Options/Part No.

When optional parts are required separately, use the following part numbers to place an order.

Description	Part no.	Qty.	Note
Bracket Note)	ZS-40-K	1	For PF3W704/720/504/520 With 4 tapping screws (3 x 8)
	ZS-40-L	1	For PF3W740/540 With 4 tapping screws (3 x 8)
	ZS-40-M	1	For PF3W711/511 With 4 tapping screws (4 x 10)
Lead wire with M8 connector	ZS-40-A	1	Lead wire length (3 m)

Note) For units with flow adjustment valve, 2 brackets are required.

SMC