

2-Color Display High-Precision Digital Pressure Switch



RoHS

Series 25A-ZSE30A(F)/25A-ISE30A



How to Order

25A - ISE30A - 01 - N - M

Series compatible with secondary batteries

Rated pressure range

ISE30A	-0.1 to 1 MPa
ZSE30A	0 to -101 kPa
ZSE30AF	-100 to 100 kPa

Piping specifications

01	R1/8 (M5 female threaded)	
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Output specifications

N	NPN open collector 1 output
P	PNP open collector 1 output
A	NPN open collector 2 outputs
B	PNP open collector 2 outputs
C*	NPN open collector 1 output + Analog voltage output
D*	NPN open collector 1 output + Analog current output
E*	PNP open collector 1 output + Analog voltage output
F*	PNP open collector 1 output + Analog current output

* Made to Order

Unit specifications

Nil	With display unit Note 1) switching function
M	Fixed SI unit Note 2)
P*	With display unit Note 1) switching function (Initial value psi)

* Made to Order

Note 1) Under the New Measurement Law, sales of switches with the unit switching function have not been allowed for use in Japan.

Note 2) Fixed unit kPa, MPa

Option 1

Nil	Without lead wire	
L	Lead wire with connector (Lead wire length 2 m) Note)	
G	Lead wire with connector (Lead wire length 2 m) Note) With connector cover	

Note) For output types N and P, the number of core of lead wires will be 3, and for other types, 4 cores will be required.

Option 3

Symbol	Operation manual Note)	Calibration certificate Note)
Nil	○	—
Y	—	—
K	○	○
T	—	○

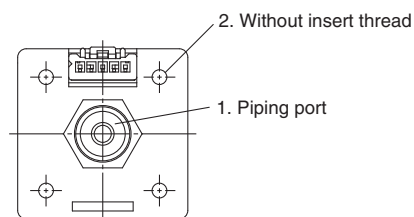
Note) All texts in both English and Japanese

Option 2

Nil	None
B	Panel mount adapter 25A-ZS-27-C
D	Panel mount adapter + Front protection cover 25A-ZS-27-D

Secondary Batteries (25A) Specifications

1. Piping port material: Stainless steel
2. Without insert thread for bracket mounting. Others are the same as standard products.



Directional Control Valves

Actuators

Related Products

Rotary Actuators

Air Grippers

Vacuum Equipment

Air Preparation Equipment

Clean Air Filters

Air Filters/Pressure Control Equipment

Fittings/Flow Control Equipment

Detection Switches

Fluid Control Equipment

Auto Switches

2-Color Display High-Precision Digital Pressure Switch



RoHS

Series 25A-ZSE40A(F)/25A-ISE40A

How to Order



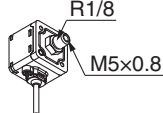
25A - ISE40A - 01 - X SDPC - M

Series compatible with
secondary batteries

Rated pressure range

ISE40A	-0.1 to 1 MPa
ZSE40A	0 to -101 kPa
ZSE40AF	-100 to 100 kPa

Piping specifications

01	R1/8 (With M5 female thread)	
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Output specifications

Symbol	Wiring specifications	
X	SDPC	NPN open collector 2 outputs
Y		PNP open collector 2 outputs
R		NPN open collector 1 output + Analog voltage output/Auto-shift switching
S		NPN open collector 1 output + Analog current output/Auto-shift switching
T		PNP open collector 1 output + Analog voltage output/Auto-shift switching
V		PNP open collector 1 output + Analog current output/Auto-shift switching
X	Nil	NPN open collector 2 outputs + Copy function
Y		PNP open collector 2 outputs + Copy function
R		NPN open collector 2 outputs + Analog voltage output/Auto-shift switching
S		NPN open collector 2 outputs + Analog current output/Auto-shift switching
T		PNP open collector 2 outputs + Analog voltage output/Auto-shift switching
V		PNP open collector 2 outputs + Analog current output/Auto-shift switching

Wiring specifications

SDPC	M12 4-pin pre-wired connector (Lead wire length 0.5m)
Nil	Without connector (Lead wire length 2m)

Unit specifications

Nil	With unit switching function ^{Note 1)}
M	Fixed SI unit ^{Note 2)}
P	With unit switching function ^{Note 1)} (Initial value psi)

Note 1) Under the New Measurement Law, sales of switches with the unit switching function are not allowed for use in Japan.

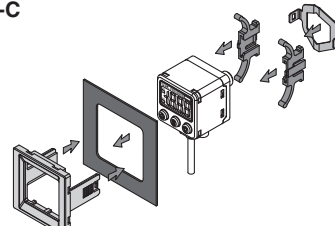
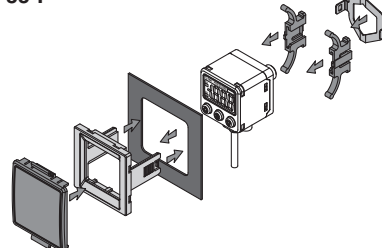
Note 2) Fixed unit
ISE40A : MPa
ISE40A(F) : kPa

Option 2

Symbol	Calibration certificate ^{Note)}
Nil	—
K	○

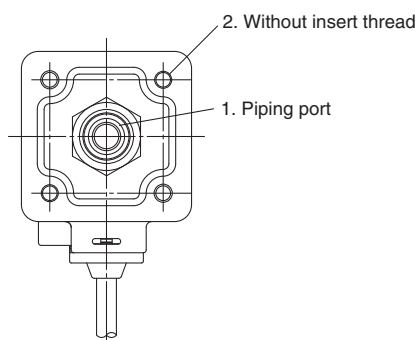
Note) All texts in both English and Japanese

Option 1

Nil	None
E	Panel mount adapter ZS-35-C 
F	Panel mount adapter + Front protective cover ZS-35-F 

Secondary Batteries (25A) Specifications

- Piping port material: Stainless steel
 - Without insert thread for bracket mounting
- Others are the same as standard products.



2-Color Display Digital Pressure Switch for General Fluids Series 25A-ZSE80(F)/25A-ISE80



How to Order



25A - ISE80 - 02 - A SDPC - M

Series compatible with secondary batteries

Rated pressure range

ISE80	-0.1 to 1 MPa
ZSE80	0 to -101 kPa
ZSE80F	-100 to 100 kPa

Rated pressure range

02	R1/4 (M5 female threaded)
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Output specifications

Symbol	Wiring specifications	
A	SDPC	NPN open collector 2 outputs
B		PNP open collector 2 outputs
R		NPN open collector 1 output + Analog voltage output/Auto-shift switching
S		NPN open collector 1 output + Analog current output/Auto-shift switching
T		PNP open collector 1 output + Analog voltage output/Auto-shift switching
V	Nil	PNP open collector 1 output + Analog current output/Auto-shift switching
N		NPN open collector 1 output
P		PNP open collector 1 output
A		NPN open collector 2 outputs
B		PNP open collector 2 outputs
R	Nil	NPN open collector 2 outputs + Analog voltage output/Auto-shift switching
S		NPN open collector 2 outputs + Analog current output/Auto-shift switching
T		PNP open collector 2 outputs + Analog voltage output/Auto-shift switching
V		PNP open collector 2 outputs + Analog current output/Auto-shift switching

Wiring specifications

SDPC	M12 4-pin pre-wired connector (Lead wire length 0.5m)
Nil	Without connector (Lead wire length 2m)

Unit specifications

Nil	With unit display switching function ^{Note 1)}
M	Fixed SI unit ^{Note 2)}
P	Initial value psi ^{Note 1)}

Note 1) Under the New Measurement Law, sales of switches with the unit switching function are not allowed for use in Japan.

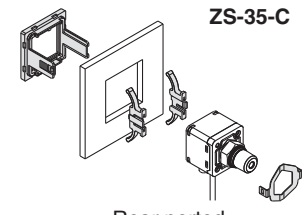
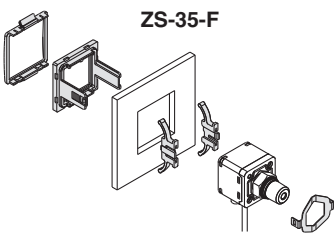
Note 2) Fixed unit: kPa, MPa

Option 2

Symbol	Operation manual ^{Note)}	Calibration certificate ^{Note)}
Nil	●	—
Y	—	—
K	●	●
T	—	●

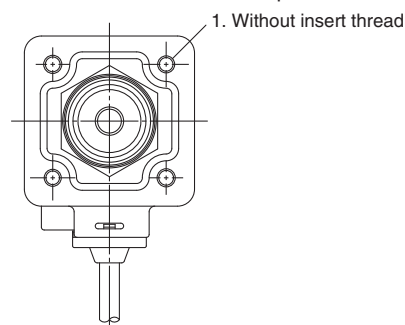
Note) All texts in both English and Japanese

Option 1

Nil	None
C	Panel mount adapter ZS-35-C  Rear ported
D	Panel mount adapter + Front protection cover ZS-35-F  Rear ported

Secondary Batteries (25A) Specifications

- Without insert thread for bracket mounting
Others are the same as standard products.



Directional Control Valves
Actuators
Related Products
Rotary Actuators
Air Grippers
Vacuum Equipment
Air Preparation Equipment
Clean Air Filters
Air Filters/Pressure Control Equipment
Fittings/Flow Control Equipment
Detection Switches
Fluid Control Equipment
Auto Switches

2-Color Display Digital Flow Switch

Integrated
display



Series 25A-PFM7



How to Order

Integrated
display

25A - PFM7 **10** - **C6** **A** - **M** **W**

Series compatible with
secondary batteries

Type

7 Integrated display

Rated flow range (Flow rate range)

10	0.2 to 10 (5) L/min
25	0.5 to 25 (12.5) L/min
50	1 to 50 (25) L/min
11	2 to 100 (50) L/min

* (): Fluid: CO₂

Port size

Symbol	Description	Flow rate range			
		10	25	50	11
01	Rc1/8	●	●	●	—
02	Rc1/4	—	—	—	●
N01	NPT1/8	●	●	●	—
N02	NPT1/4	—	—	—	●
F01	G1/8	●	●	●	—
F02	G1/4	—	—	—	●
C6	ø6 One-touch fitting	●	●	●	●
C8	ø8 (5/16") One-touch fitting	—	●	●	●

Piping entry direction

Nil	Straight
L	Bottom

Output specifications

A	2 NPN outputs
B	2 PNP outputs
C	1 NPN output + Analog output (1 to 5 V)
D	1 NPN output + Analog output (4 to 20 mA)
E	1 PNP output + Analog output (1 to 5 V)
F	1 PNP output + Analog output (4 to 20 mA)
G	1 NPN output + External input ^{Note 3)}
H	1 PNP output + External input ^{Note 3)}

Note 3) User can select from accumulated value
external reset, auto-shift and auto-shift zero.

Unit specifications

Nil	With unit switching function ^{Note2)}
M	Fixed SI unit ^{Note1)}

Note 1) Fixed unit: Instantaneous flow rate: L/min
Accumulated flow: L

Note 2) Under Japan's new Measurement Act,
this is only for overseas sales
(SI units are to be used inside Japan).

* Specifications and dimensions for the 25A-series are the same as standard products.
* Digital flow switch with flow adjustment valve is not standard product.
It can be supplied as Made-to-Order separately.

Option 1

W	Lead wire with connector (2 m) + Rubber cover for connector (Silicon rubber)
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Calibration certificate

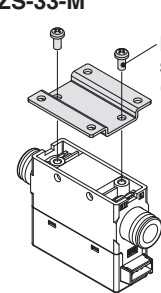
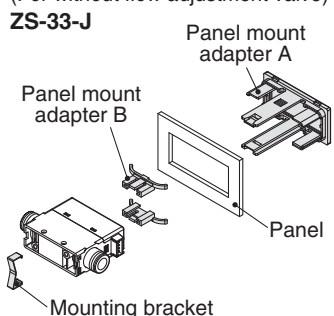
Nil	None
A	With calibration certificate

* The certificate is written in English and
Japanese.
Other languages are available as specials.

Operation manual

Nil	With operation manual (Japanese and English)
N	None

Option 2

Nil	None
R	Bracket (For without flow adjustment valve) 25A-ZS-33-M 
T	Panel mount adapter (For without flow adjustment valve) ZS-33-J  Panel mount adapter A Panel mount adapter B Panel Mounting bracket

3-color display

Digital Flow Switch for Water

Series 25A-PF3W € €

RoHS

How to Order



Remote sensor unit

Output specification/Temperature sensor

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

Remote sensor unit/ Unit printed on label

Symbol	Instantaneous flow rate	Accumulated flow	Temperature
Nil	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: "Nil") 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

Remote sensor unit

Integrated display

Series compatible with secondary batteries



25A-PF3W 5 04 - **03** - **1T** - **AT** - **M**

25A-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

Thread type

Nil	Rc
N	NPT
F	G

Port size

Symbol	Port size	04	20	40	11
03	3/8	●	●	—	—
04	1/2	—	●	●	—
06	3/4	—	—	●	●
10	1/1	—	—	—	●

Flow adjustment valve

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

100 L/min type is not available with flow adjustment valve.

* Specifications and dimensions for the 25A-series are the same as standard products.

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.

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

Integrated display Output specification/ Temperature sensor

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

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)}	25A-ZS-40-K	1	For PF3W704/720/504/520 With 4 tapping screws (3 x 8)
	25A-ZS-40-L	1	For PF3W740/540 With 4 tapping screws (3 x 8)
	25A-ZS-40-M	1	For PF3W711/511 With 4 tapping screws (4 x 10)
Lead wire with M8 connector	25A-ZS-40-A	1	Lead wire length (3 m)

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



* Specifications and dimensions for the 25A-series are the same as standard products.

3-color display

Digital Flow Switch for PVC Piping

Series 25A-PF3W € €

RoHS

How to Order



Remote sensor unit Output specification

Symbol	OUT1
1	Analog 1 to 5 V
2	Analog 4 to 20 mA

Remote sensor unit/Unit printed on label

Symbol	Instantaneous flow rate	Accumulated flow	Temperature
Nil	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: "Nil") 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

Calibration certificate (Only flow sensor)

Nil	None
A	With calibration certificate

* The certificate is written in both English and Japanese.

Remote sensor unit

Integrated display

Series compatible with secondary batteries



25A - PF3W 5 11 - U [] - 1 [] - [] [] [] []
25A - PF3W 7 11 - U 25 - A [] - M [] [] []

Type

5	Remote sensor unit
7	Integrated display

Rated flow range (Flow range)

Symbol	Rated flow range
11	10 to 100 L/min

Connection type

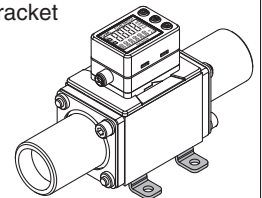
U	PVC pipe
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PVC pipe O.D.

Symbol	Port size
25	25A

Bracket (Option)

Nil	None
R	Bracket



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

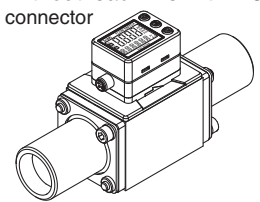
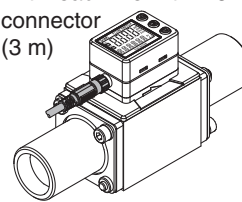
Reference: 1 [L/min] ↔ 0.2642 [gal/min]

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



Integrated display Output specification

Symbol	OUT1	OUT2
A	NPN	NPN
B	PNP	PNP
C	NPN	Analog 1 to 5 V
D	NPN	Analog 4 to 20 mA
E	PNP	Analog 1 to 5 V
F	PNP	Analog 4 to 20 mA
G	NPN	External input
H	PNP	External input

External input: The accumulated value, peak value, and bottom value can be reset.

* Specifications and dimensions for the 25A-series are the same as standard products.

Options/Part No.

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

Description	Part no.	Qty.	Note
Bracket	25A-ZS-40-M	1	For PF3W711/511 With 4 tapping screws (4 x 10)
Lead wire with M8 connector	25A-ZS-40-A	1	Lead wire length (3 m)

* Specifications and dimensions for the 25A-series are the same as standard products.