

Discontinue

Small flow rate sensor (RAPIFLOW)
Integrated display/separated display

FSM2 Series

- Aluminum body (flow rate range: 500 l/min, 1000 l/min)
- Stainless steel body (flow rate range: 500 ml/min to 200 l/min)

P4 compliant
as standard



Pneumatic, Vacuum and Auxiliary Components
Catalog No. CB-024SA

Integrated display (stainless steel body) specifications



* With needle valve

Descriptions		Integrated display (stainless steel body) FSM2-[*1][*2][*3][*4]-[*5][*6][*7]-[*8]										
		Full scale flow rate	005	010	020	050	100	200	500	101	201	
Flow rate *1	* 4	005	500 ml/min	●								
		010	1 l/min		●							
		020	2 l/min			●						
		050	5 l/min				●					
		100	10 l/min					●				
		200	20 l/min						●			
		500	50 l/min							●		
		101	100 l/min								●	
Port size/ body material	* 5	S06	Rc1/8 Stainless steel	●	●	●	●	●	●	(Not for carbon dioxide)		
		S08	Rc1/4 Stainless steel							●	●	
		SM5	M5 Stainless steel (made to order)	●	●	●	●	●	●	(Not for carbon dioxide)		●
Flow rate display *1, *2	Display	Display range	*3	F	4 digit + 4 digit 2 color LCD							
				R	0 to 500 ml/min	0 to 1000 ml/min	0 to 2.00 l/min	0 to 5.00 l/min	0 to 10.00 l/min	0 to 20.0 l/min	0 to 50.0 l/min	0 to 100.0 l/min
		Display resolution			1 ml/min		0.01 l/min			0.1 l/min		1 l/min
		Integrating functions *3		Display range		9999999 ml		99999.99 l			999999.9 l	
		Display resolution		1 ml		0.01 l			0.1 l		1 l	
		Integrated pulse output rate		5 ml	10 ml	0.02 l	0.05 l	0.1 l	0.2 l	0.5 l	1 l	2 l
Working conditions	Applicable fluid *4	*6	Blank	Clean air (JIS B 8392-1:2012 1.1.1 to 5.6.2), compressed air (JIS B 8392-1:2012 1.1.1 to 1.6.2), nitrogen gas								
			AR	Argon								
			C2	Carbon dioxide								
	Max. working pressure		1.0 MPa									
	Min. working pressure		-0.09 MPa									
Proof pressure		1.5 MPa										
Operating ambient temperature/humidity		0 to 50°C, 90% RH or less										
Fluid temperature		0 to 50°C (no condensation)										
Accuracy *5	Working range		Uni-direction: 3 to 100% F.S., bi-direction: -100 to -3% F.S., 3 to 100% F.S.									
	Linearity (display/analog output)		Within ±3% F.S. (Secondary side released to atmosphere)									
	Pressure characteristics		Within ±5% F.S. (-0.09 to 0.7 MPa, where secondary side is released to atmosphere)									
	Temperature characteristics		Within ±0.2% F.S./°C (15 to 35°C, base temperature 25°C)									
Reproducibility (repeatability)		Within ±1% F.S.										
Response time		*6	50 ms or less									
Output	Switch output	*1	N	Output 2 points (NPN open collector output, 50 mA or less, voltage drop 2.4 V or less)								
			P	Output 2 points (PNP open collector output, 50 mA or less, voltage drop 2.4 V or less)								
Analog output	*2	V	1 to 5 V voltage output 1 point (connecting load impedance 50 kΩ and over) *7									
		A	4 to 20 mA current output 1 point (connecting load impedance 0 to 300 Ω)									
Power supply voltage *8	*2	V	12 to 24 VDC(10.8 to 26.4 V)									
A		24 VDC(21.6 to 26.4 V)										
Current consumption		*9	50 mA or less									
Lead wire			ø3.7, AWG26 or equivalent x 5-conductor (connector), insulator outer diameter ø1.0									
Functions			Flow rate display, flow rate display peak hold, switch output, analog output, etc.									
Mounting	Mounting orientation		Unrestricted in vertical/horizontal direction									
Straight piping section			Not required									
Degree of protection			IEC standards IP40 or equivalent									
Protection circuit		*10	Power reverse connection protection, switch output reverse connection protection, switch output load short-circuit protection									
EMC Directive			EN55011, EN61000-6-2, EN61000-4-2/3/4/6/8									
Weight (main body only)	*5	S06	Approx. 95 g									
		S08	Approx. 115 g									
		SM5	Approx. 140 g									
Clean-room specifications	*8	P70	Anti-dust generation *11									
		P80	Oil free *12									

Integrated display (aluminum body) specification

* Products with needle valves are not P4 compliant.

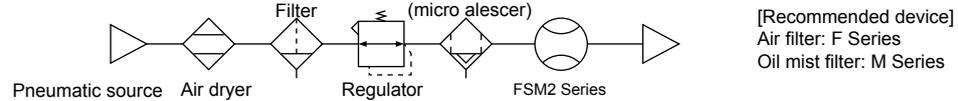


P4 compliant
as standard

Descriptions		Integrated display (aluminum body) FSM2-[*1][*2][*3][*4]-[*5][*6]-[*7]		
		Full scale flow rate	501	102
Flow rate *1	* 4	501	500 ℓ/min	●
		102	1000 ℓ/min	●
Port size/ body material	* 5	A15	Rc1/2 / aluminum	●
Flow rate display *1, *2	Display		4 digit + 4 digit 2 color LCD	
	Display range	*3	F	0 to 500 ℓ/min
			R	-500 to 500 ℓ/min
Display resolution		1 ℓ/min		
Integrating functions *3	Display range		9999999 ℓ	
	Display resolution		1 ℓ	
	Integrated pulse output rate		5 ℓ	10 ℓ
Working conditions	Applicable fluids		*4 Clean air (JIS B 8392-1:2012 1.1.1 to 5.6.2), compressed air (JIS B 8392-1:2012 1.1.1 to 1.6.2), nitrogen gas	
	Max. working pressure		0.7 MPa	
	Min. working pressure		-0.09 MPa	
	Proof pressure		1 MPa	
	Operating ambient temperature/humidity		0 to 50°C, 90% RH or less	
	Fluid temperature		0 to 50°C (no condensation)	
Accuracy*5	Working range		Uni-direction: 3 to 100% F.S., bi-direction: -100 to -3% F.S., 3 to 100% F.S.	
	Linearity (display/analog output)		Within ±3% F.S. (Secondary side released to atmosphere)	
	Pressure characteristics		Within ±5% F.S. (-0.09 to 0.7 MPa, where secondary side is released to atmosphere)	
	Temperature characteristics		Within ±0.2% F.S./°C (15 to 35°C, base temperature 25°C)	
	Reproducibility (repeatability)		Within ±1% F.S.	
Response time		*6 50 ms or less		
Output	Switch output	*1	N	Output 2 points (NPN open collector output, 50 mA or less, voltage drop 2.4 V or less)
			P	Output 2 points (PNP open collector output, 50 mA or less, voltage drop 2.4 V or less)
Analog output	*2	V	1 to 5 V voltage output 1 point (connecting load impedance 50 kΩ and over) *7	
		A	4 to 20 mA current output 1 point (connecting load impedance 0 to 300 Ω)	
Power supply voltage *8	*2	V	12 to 24 VDC(10.8 to 26.4 V)	
		A	24 VDC(21.6 to 26.4 V)	
Current consumption		*9 50 mA or less		
Lead wire		ø3.7, AWG26 or equivalent x 5-conductor (connector), insulator outer diameter ø1.0		
Functions		Flow rate display, flow rate display peak hold, switch output, analog output, etc.		
Mounting	Mounting orientation		Unrestricted in vertical/horizontal direction	
	Straight piping section		Not required	
Degree of protection		IEC standards IP40 or equivalent		
Protection circuit		*10 Power reverse connection protection, switch output reverse connection protection, switch output load short-circuit protection		
EMC Directive		EN55011, EN61000-6-2, EN61000-4-2/3/4/6/8		
Weight (main body only)	*5	A15	Approx. 155 g	
Clean-room specifications	*7	P70	Anti-dust generation *11	
		P80	Oil free *12	

Clean air
components

- *1: The value converted to volumetric flow rate at standard condition (20°C 1 barometric pressure (101 kPa) relative humidity 65%).
- *2: The flow rate display is rounded off at approx. ±1% F.S. or less (forced zero).
- *3: The accumulated flow is a calculated (reference) value. It is reset when the power is turned OFF.
- *4: Use dry gas which does not contain corrosive elements such as chlorine, sulfur or acids, and which is clean and does not contain dust or oil mist. When using compressed air, use clean air that complies with JIS B 8392-1:2012 Class 1.1.1 to 1.6.2. Compressed air from the compressor contains drainage (water, oil oxides, foreign matter, etc.). To maintain the function of this product, install a filter, air dryer (min. pressure dew point 10°C or less), and oil mist filter (max. oil content 0.1 mg/m³) on the primary side (upstream side) of this product.
[Recommended circuit]



- *5: Calibration of this product is performed within specified range. Accuracy conditions: Temperature 25 ±3°C, power supply voltage 24±0.01 VDC. F.S. stands for full scale flow rate.
- *6: Response time can be set in seven steps from 50 ms. or less to approx. 1.5 s.
- *7: The output impedance of the analog output section is approx. 1 kΩ. If the impedance of the connecting load is small, output and error increase. Check error with the impedance of the connecting load before using.
- *8: The power supply voltage specifications differ for the voltage output and current output.
- *9: Current for when 24 VDC is connected, and no load is applied. The current consumption will vary depending on how the load is connected.
- *10: This product's protection circuit is effective only for specific misconnections and load short-circuits. It does not provide protection for all misconnections.
- *11: [P70] Anti-dust generation (product surface is degreased and cleaned before packing. Heat sealed into antistatic bag in clean bench (Class 1000 and over).)
- *12: [P80] Oil-free (In addition to P70 specifications, gas-contact sections are degreased and cleaned. Refer to "Pneumatic, Vacuum and Auxiliary Components" (Catalog No. CB-024SA) for gas-contact section materials.)



P4 compliant
as standard

Separated display (stainless steel body) specifications

Descriptions		Separated display (stainless steel body)									
		FSM2-A[*1][*2][*3]-[*4][*5]-[*6]									
		Full scale flow rate	005	010	020	050	100	200	500	101	201
Flow rate *1	* 3	005	500 ml/min	●							
		010	1 l/min		●						
		020	2 l/min			●					
		050	5 l/min				●				
		100	10 l/min					●			
		200	20 l/min						●		
		500	50 l/min							●	
		101	100 l/min								●
	201	200 l/min								●	
Port size/ body material	* 4	S06	Rc1/8 Stainless steel	●	●	●	●	●	●	(Not for carbon dioxide)	
		S08	Rc1/4 Stainless steel							●	●
		SM5	M5 Stainless steel (made to order)	●	●	●	●	●	●	(Not for carbon dioxide)	
Flow direction		*2	F	Uni-direction							
			R	Bi-direction							
Working conditions	Applicable fluid *2	*5	Blank	Clean air (JIS B 8392-1:2012 1.1.1 to 5.6.2), compressed air (JIS B 8392-1:2012 1.1.1 to 1.6.2), nitrogen gas							
			AR	Argon							
			C2	Carbon dioxide							
	Max. working pressure			1.0 MPa							
	Min. working pressure			-0.09 MPa							
Proof pressure			1.5 MPa								
Operating ambient temperature/humidity			0 to 50°C, 90% RH or less								
Fluid temperature			0 to 50°C (no condensation)								
Accuracy*3	Working range		Uni-direction: 3 to 100% F.S., bi-direction: -100 to -3% F.S., 3 to 100% F.S.								
	Linearity (analog output)		Within ±3% F.S. (Secondary side released to atmosphere)								
	Pressure characteristics		Within ±5% F.S. (-0.09 to 0.7 MPa, where secondary side is released to atmosphere)								
	Temperature characteristics		Within ±0.2% F.S./°C (15 to 35°C, base temperature 25°C)								
	Reproducibility (repeatability)		Within ±1% F.S.								
Response time			50 ms or less								
Display			Flow bar display								
Output	Analog output	*1	V	1 to 5 V voltage output 1 point (connecting load impedance 50 kΩ and over) *4							
			A	4 to 20 mA current output 1 point (connecting load impedance 0 to 300 Ω)							
Power supply voltage *5		*1	V	12 to 24 VDC(10.8 to 26.4 V)							
			A	24 VDC(21.6 to 26.4 V)							
Current consumption		*6	50 mA or less								
Lead wire			ø3.7, AWG26 or equivalent x 4-conductor (connector), insulator outer diameter ø1.0								
Functions			Analog output, flow bar display, error display								
Mounting	Mounting orientation		Unrestricted in vertical/horizontal direction								
	Straight piping section		Not required								
Degree of protection			IEC standards IP40 or equivalent								
Protection circuit		*7	Power reverse connection protection								
EMC Directive			EN55011, EN61000-6-2, EN61000-4-2/3/4/6/8								
Weight (main body only)	*4	S06	Approx. 85 g								
		S08	Approx. 105 g								
		SM5	Approx. 130 g								
Clean-room specifications	*6	P70	Anti-dust generation *8								
		P80	Oil free *9								

Separated display (aluminum body) specifications

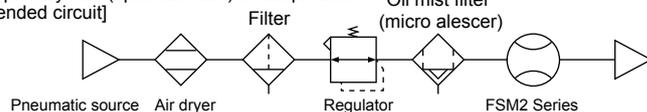
* Products with needle valves are not P4 compliant.



P4 compliant
as standard

Descriptions			Separated display (aluminum body) FSM2-A[*1][*2][*3]-[*4]-[*5]	
			Full scale flow rate	501 102
Flow rate *1	* 3	501	500 l/min	●
		102	1000 l/min	●
Port size/ body material	* 4	A15	Rc1/2 / aluminum	●
Flow direction		*2	F	Uni-direction
			R	Bi-direction
Working conditions	Applicable fluid		*2 Clean air (JIS B 8392-1:2012 1.1.1 to 5.6.2), compressed air (JIS B 8392-1:2012 1.1.1 to 1.6.2), nitrogen gas	
	Max. working pressure		0.7 MPa	
	Min. working pressure		-0.09 MPa	
	Proof pressure		1 MPa	
	Operating ambient temperature/humidity		0 to 50°C, 90% RH or less	
	Fluid temperature		0 to 50°C (no condensation)	
Accuracy*3	Working range		Uni-direction: 3 to 100% F.S., bi-direction: -100 to -3% F.S., 3 to 100% F.S.	
	Linearity (analog output)		Within ±3% F.S. (Secondary side released to atmosphere)	
	Pressure characteristics		Within ±5% F.S. (-0.09 to 0.7 MPa, where secondary side is released to atmosphere)	
	Temperature characteristics		Within ±0.2% F.S./°C (15 to 35°C, base temperature 25°C)	
	Reproducibility (repeatability)		Within ±1% F.S.	
Response time			50 ms or less	
Display			Flow bar display	
Output	Analog output	*1	V	1 to 5 V voltage output 1 point (connecting load impedance 50 kΩ and over) *4
			A	4 to 20 mA current output 1 point (connecting load impedance 0 to 300 Ω)
Power supply voltage *5		*1	V	12 to 24 VDC(10.8 to 26.4 V)
			A	24 VDC(21.6 to 26.4 V)
Current consumption			*6 style="text-align: center;">50 mA or less	
Lead wire			ø3.7, AWG26 or equivalent x 4-conductor (connector), insulator outer diameter ø1.0	
Functions			Analog output, flow bar display, error display	
Mounting	Mounting orientation		Unrestricted in vertical/horizontal direction	
	Straight piping section		Not required	
Degree of protection			IEC standards IP40 or equivalent	
Protection circuit			*7 style="text-align: center;">Power reverse connection protection	
EMC Directive			EN55011, EN61000-6-2, EN61000-4-2/3/4/6/8	
Weight (main body only)		*4	A15	Approx. 145 g
Clean-room specifications		*5	P70	Anti-dust generation *8
			P80	Oil free *9

- *1: The value converted to volumetric flow rate at standard condition (20°C 1 barometric pressure (101 kPa) relative humidity 65%).
 *2: Use dry gas which does not contain corrosive elements such as chlorine, sulfur or acids, and which is clean and does not contain dust or oil mist. When using compressed air, use clean air that complies with JIS B 8392-1:2012 Class 1.1.1 to 1.6.2. Compressed air from the compressor contains drainage (water, oil oxides, foreign matter, etc.). To maintain the function of this product, install a filter, air dryer (min. pressure dew point 10°C or less), and oil mist filter (max. oil content 0.1 mg/m³) on the primary side (upstream side) of this product.
 [Recommended circuit]



[Recommended device]
 Air filter: F Series
 Oil mist filter: M Series

- *3: Calibration of this product is performed within specified range. Accuracy conditions: Temperature 25 ±3°C, power supply voltage 24±0.01 VDC. F.S. stands for full scale flow rate.
 *4: The output impedance of the analog output section is approx. 1 kΩ. If the impedance of the connecting load is small, output and error increase. Check error with the impedance of the connecting load before using.
 *5: The power supply voltage specifications differ for the voltage output and current output.
 *6: Current for when 24 VDC is connected, and no load is applied. The current consumption will vary depending on how the load is connected.
 *7: This product's protection circuit is effective only for specific misconnections and load short-circuits. It does not provide protection for all misconnections.
 *8: [P70] Anti-dust generation (product surface is degreased and cleaned before packing. Heat sealed into antistatic bag in clean bench (Class 1000 and over).)
 *9: [P80] Oil-free (In addition to P70 specifications, gas-contact sections are degreased and cleaned. Refer to "Pneumatic, Vacuum and Auxiliary Components" (Catalog No. CB-024SA) for gas-contact section materials.)

Clean air
components

Separated display specifications

Descriptions				Separated display FSM2-D-[*1][*2]- □ -[*3]
Settable flow rate range		*1	mℓ	5, 10, 50, 100, 500
			ℓ	1, 2, 4, 5, 10, 12, 20, 25, 32, 50, 100, 200, 500, 1000, 1500
Operating ambient temperature/humidity				0 to 50°C
Display				4 digit + 4 digit 2 color LCD
Input voltage				1 to 5 V
Output	Switch output	*1	N	Output 2 points (NPN open collector output, 50 mA or less, voltage drop 2.4 V or less)
			P	Output 2 points (PNP open collector output, 50 mA or less, voltage drop 2.4 V or less)
	Analog output	*2	V	1 to 5 V voltage output 1 point (connecting load impedance 50 kΩ and over) *6
			A	4 to 20 mA current output 1 point (connecting load impedance 0 to 300 Ω)
Power supply voltage		*2	V	12 to 24 VDC(10.8 to 26.4 V)
			A	24 VDC(21.6 to 26.4 V)
Current consumption		*2	40 mA or less (when 24 VDC is connected, and no load is connected)	
Lead wire				ø3.7, AWG26 or equivalent x 5-conductor (connector), insulator outer diameter ø1.0
Functions				Flow rate display, flow rate display peak hold, switch output, analog output
Degree of protection				IEC standards IP40 or equivalent
Protection circuit		*3	Power reverse connection protection	
EMC Directive				EN55011, EN61000-6-2, EN61000-4-2/3/4/6/8
Accessory				1 sensor connection connector (e-con), conforming cable AWG24 to 26, insulator outer diameter ø1.0 to 1.2
Weight (main body only)				Approx. 40 g
Clean-room specifications	*4	*3	P70	Anti-dust generation

- *1: The flow rate range, flow direction and gas type are automatically recognized only when the FSM2 separated display. (Default state)
 The FSM-H Series, FSM-V Series and WFK3000 Series flow rate ranges are supported in addition to the FSM2 Series, but automatic recognition is supported only with the FSM2 Series. Always set the product's flow rate range, flow direction and gas type before use.
 The connectable flow rate ranges are shown in "Display by flow rate range" below.
 When the sensor section is changed, the previous flow rate range settings, etc., will still be recorded. Always reset the settings before using.
- *2: Current for when 24 VDC is connected, and no load is connected. The current consumption will vary depending on how the load is connected.
- *3: This product's protection circuit is effective only for specific misconnections and load short-circuits. It does not provide protection for all misconnections.
- *4: [P70] Anti-dust generation (product surface is degreased and cleaned before packing. Heat sealed into antistatic bag in clean bench (Class 1000 and over).)
- *5: When connecting to the FSM-V Series or WFK3000 Series, the cable size is different so a separate compatible sensor connection connector (e-con) will be required. Contact your nearest CKD sales office or dealer.
 The attached sensor connection connector (e-con) can be used with the FSM Series and FSM-H Series.
- *6: The output impedance of the analog output section is approx. 1 kΩ. If the impedance of the connecting load is small, output and error increase. Check error with the impedance of the connecting load before using.

Display for each flow rate range

Flow rate display	Display range	Uni-direction	0 to 500 ml/min	0 to 1000 ml/min	0 to 2.00 ℓ/min	0 to 4.00 ℓ/min	0 to 5.00 ℓ/min	0 to 10.00 ℓ/min	0 to 12.0 ℓ/min	0 to 20.0 ℓ/min	0 to 25.0 ℓ/min	0 to 32.0 ℓ/min	0 to 50.0 ℓ/min	0 to 100.0 ℓ/min	0 to 200 ℓ/min	0 to 500 ℓ/min	0 to 1000 ℓ/min	0 to 1.50 m ³ /min	0 to 5.00 mℓ/min	0 to 10.00 mℓ/min	0 to 50.0 mℓ/min	0 to 100.0 mℓ/min
		Bi-direction	-500 to 500 ml/min	-1000 to 1000 ml/min	-2.00 to 2.00 ℓ/min	-5.00 to 5.00 ℓ/min	-10.00 to 10.00 ℓ/min	-	-20.0 to 20.0 ℓ/min	-	-	-50.0 to 50.0 ℓ/min	-100.0 to 100.0 ℓ/min	-200 to 200 ℓ/min	-500 to 500 ℓ/min	-1000 to 1000 ℓ/min	-1.50 to 1.50 m ³ /min	-5.00 to 5.00 mℓ/min	-10.00 to 10.00 mℓ/min	-50.0 to 50.0 mℓ/min	-100.0 to 100.0 mℓ/min	
	Display resolution		1 mℓ/min		0.01 ℓ/min			0.1 ℓ/min					1 ℓ/min		0.01 m ³ /min	0.01 mℓ/min		0.1 mℓ/min				
	Display range		9999999 mℓ		99999.99 ℓ			999999.9 ℓ					9999999 ℓ		99999.99 m ³	99999.99 mℓ		999999.9 mℓ				
	Display resolution		1 mℓ		0.01 ℓ			0.1 ℓ					1 ℓ		0.01 m ³	0.01 mℓ		0.1 mℓ				
Integrating functions	Integrated pulse output rate		5 mℓ	10 mℓ	0.02 ℓ	0.04 ℓ	0.05 ℓ	0.1 ℓ	0.12 ℓ	0.2 ℓ	0.25 ℓ	0.32 ℓ	0.5 ℓ	1 ℓ	2 ℓ	5 ℓ	10 ℓ	15 ℓ	0.05 mℓ	0.1 mℓ	0.5 mℓ	1 mℓ

- *1: The flow rate display is rounded off at approx. ±1% F.S. or less (forced zero).
- *2: The accumulated flow is a calculated (reference) value. It is reset when the power is turned OFF.
- * The corresponding sensor is the voltage output (1 to 5 V). If the current output or other voltage output is connected, it will not operate properly.

How to order

● Integrated display, separated display

FSM2 - A V R 005 - S06 AR 1 B K - P70

A Output

B Analog output
*2

C Flow direction

D Flow rate

* Refer to the table on the following page for the flow rate range, port size (body material), and gas combinations.

E Port size (body material)
*3

F Gas

G Cable

H Bracket

I Traceability

J Clean-room specifications

Code	Content
A Output	
A *1	Separated display (analog output 1 point only)
N	Integrated display (switch output (NPN) 2 points, analog output 1 point)
P	Integrated display (switch output (PNP) 2 points, analog output 1 point)
B Analog output	
V	Voltage output (1 to 5 V)
A	Current output (4 to 20 mA)
C Flow direction	
F	Uni-direction
R	Bi-direction
D Flow rate range (full scale flow rate)	
005	500 ml/min
010	1 l/min
020	2 l/min
050	5 l/min
100	10 l/min
200	20 l/min
500	50 l/min
101	100 l/min
201	200 l/min
501	500 l/min
102	1000 l/min
E Port size (body material)	
S06	Rc1/8 (stainless steel)
S08	Rc1/4 (stainless steel)
A15	Rc1/2 (aluminum)
SM5	M5 (stainless steel) (made to order)
F Gas	
Blank	Air, nitrogen gas
AR	Argon
C2	Carbon dioxide
G Cable	
Blank	No
1	1 m
3	3 m
H Bracket	
Blank	No
B	With bracket
P *1	Panel mounting kit
I Traceability	
Blank	No
T	Traceability certification with series variation diagram and company certification
K	With company certification
J Clean-room specifications	
Blank	No
P70	Anti-dust generation
P80	Oil free

Clean air components

Precautions for model No. selection

*1: For the **A** Output "A", the **H** Panel mounting option "P" cannot be selected.

The separated display is not attached with the **A** Output "A".

*2: When using the FSM2-D for the separated display with separated display, select "V".

*3: For the **E** Port size "A15", the **H** Panel mounting option "P" cannot be selected.

*4: Products with needle valves are not P4 compliant.

FSM2 Series

For flow rate range, port size (body material)

		E Port size (body material)			
		S06	S08	A15	SM5
D Flow rate range	005	●○△			●○△
	010	●○△			●○△
	020	●○△			●○△
	050	●○△			●○△
	100	●○△			●○△
	200	●○△			●○
	500	●○	●○△		
	101		●○△		
	201		●		
	501			●	
102			●		

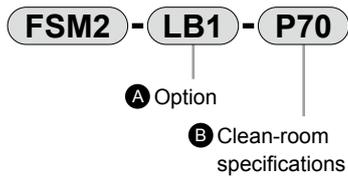
F Gas
 ● : Air, nitrogen gas
 ○ : Argon
 △ : Carbon dioxide
 □ : Not available

Combination of port size and clean-room specifications

		E Port size (body material)			
		S06	S08	A15	SM5
K Clean-room specifications	P70	●	●	●	●
	P80	●	●	●	●

● : Available

Discrete option model No.

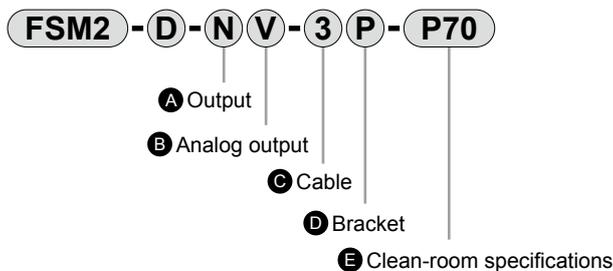


Code	Content
A Option	
LB1	Bracket (for Rc1/8, Rc1/4, M5)
LB2	Bracket (for Rc1/2)
KHS	Panel mounting kit (for integrated display, for separated display) *
C51	5-conductor cable 1 m (for integrated display and separated)
C53	5-conductor cable 3 m (for integrated display and separated)
C41	4-conductor cable 1 m (for separated display)
C43	4-conductor cable 3 m (for separated display)

Code	Content
B Clean-room specifications	
Blank	No
P70	Anti-dust generation

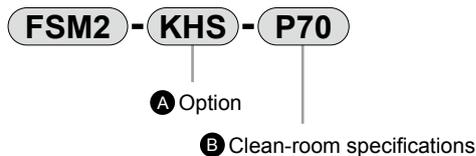
* The panel mounting kit cannot be mounted on the FSM2-□-A15□.

● Separated display



Code	Content
A Output	
N	Switch output (NPN) 2 points, analog output 1 point
P	Switch output (PNP) 2 points, analog output 1 point
B Analog output	
V	Voltage output (1 to 5 V)
A	Current output (4 to 20 mA)
C Cable	
Blank	No
1	1 m
3	3 m
D Bracket	
Blank	No
P	Panel mounting kit
E Clean-room specifications	
Blank	No
P70	Anti-dust generation

Discrete option model No.



Code	Content
A Option	
KHS	Panel mounting kit set
C51	5-conductor cable 1 m (for integrated display and separated)
C53	5-conductor cable 3 m (for integrated display and separated)
EC	Sensor connection connector (e-con) 5-pc set
B Clean-room specifications	
Blank	No
P70	Anti-dust generation



The corresponding sensor is the voltage output (1 to 5 V). If the current output or other voltage output is connected, it doesn't operate properly. Use the FSM2-AV □ when using the FSM2.