8 mm width Flow Sensor

>>> https://www.pisco.co.ip/en/

8 mm width Flow Sensor (Non-linear analog output)

∴ Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

■ Model Designation (Example)



(1) 8 mm width Flow Sensor

(2) Output type

A: Analog output (1V-5V)

(3) Flow direction

Code	F	R
Flow direction	Uni-direction	Bi-direction

(4) Flow rate range (Full scale flow rate)

Code	005	010	050	100
Flow rate range(I/min)	0.5	1	5	10

(5) Inlet port size (6) Outlet port size

•	-		-			
	Code	180(*1)	2 (*²)	3	4	6
	Size	ø1.8mm	ø2mm	ø3mm	ø4mm	ø6×ø4mm
	Connection type		Push-i	n fitting	Barb fitting	
	Code	N4	N6	M5	No code	
	Size	ø4mm	ø6mm	M5×0.8	_	
	Connection type	Plu	g-in	Female thread	Sensor head alone	

^{*1.} Max. flow rate is 4 {/min.

(7) Connector cable

Code	No code	-3
Cable	Without cable	With cable (3 cores, 3 m)

(8) Mounting bracket

Code	No code	-NH
Mounting bracket	With mounting bracket	Without mounting bracket

^{*} With bracket is not selectable when selecting Sensor head alone for inlet/outlet port in (5) and (6).

Model Designation of Connector cable



(1) 8 mm width Flow Sensor

(2) Cable

C33: 3 m of 3-core cable

Model Code for Mounting bracket



(1) Mounting bracket for 8mm width Flow sensor

^{*2.} Max. flow rate is 5 l/min.

^{*3.} Any inlet port and outlet port listed above can be combined .

Characteristics

Ultra-small and light weight

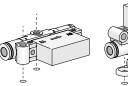
Width: 8.5mm, Height: 24mm, Length: 41mm, Weight: 10.7g (In the case of dia. 4mm push-in fitting equipped type)

A wide variety of connection methods

Various fitting combination for connection configuration is possible.

No.	(1)	(2)	(3)	(4)
Connection type	1	200		1 93
	Push-in fitting	Barb fitting	Plug-in	Female thread
Size	ø1.8, ø2, ø3, ø4mm	ø6×ø4mm	ø4, ø6mm	M5×0.8

Three types of installation method are available.







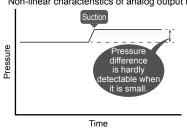
(1) Direct screw mounting

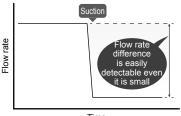
(2) Bracket mount▶ Easy mounting and removal of the product

(3) Sensor head direct mount ▶ Installation in narrow space is possible.

Best suitable for suction verification

Non-linear characteristics of analog output is suitable for small suction flow verification.



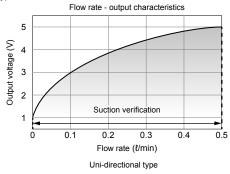


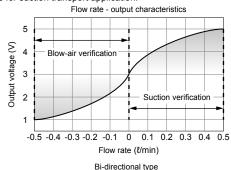
Example applications

- Suction verification of small work pieces, which is hard to detect by a pressure sensor.
- ▶ Verification for which the piping is long and hard to detect by pressure
- ▶ When vacuum flow is narrowed in order to secure pressure difference and the tact time to suction lift verification becomes longer.

Bidirectional flow measurement type, best suitable for suction transportation, is available.

Bi-directional type can be used to confirm suction lift and release. Thus, best suitable for suction transport application.





Specifications

Ite	Туре	FUS8-A-R005	FUS8-A-R010	FUS8-A-R050	FUS8-A-R100	FUS8-A-F005	FUS8-A-F010	FUS8-A-F050	FUS8-A-F100
Flo	w rate range	-0.5 to 0.5l/min	-1 to 1l/min	-5 to 5l/min	-10 to 10l/min	0 to 0.5l/min	0 to 1l/min	0 to 5l/min	0 to 10ℓ/min
<u>Q</u>	Fluid medium		Clean air (JIS B 8392-1.1.1 to 1.6.2.), Nitrogen gas						
Operating conditions	Operating pressure range		-0.09 to 0.2MPa						
S D	Proof pressure		0.3MPa						
nditi	Operating ambient temp. and hum.		0 to 50°C, max. 80% RH						
ons	Operating fluid medium temp.	0 to 50°C (No dew condensation)							
Sto	orage temp. range	-20 to 60°C (No dew condensation)							
Anal	Linearity	Non linear analog output 1 to 5 V							
90	Pressure characteristics	±5%.F.S.or les	±5%.F.S.or less (-0.09 to 0.2MPa, Criteria: 25°C, 0.1 MPa)				±10%.F.S.or less (-0.09 to 0.2MPa, Criteria: 25°C, 0.1 MPa)		
Analog output accuracy("	Temperature characteristics	±0.3%.F.	±0.3%.F.S./°C or less (0 to 50°C, Criteria: 25°C)			±0.6%.F.S./°C or less (0 to 50°C, Criteria: 25°C)			
COLL	Repeatability	±2%.F.S.or less							
acy(")	Power supply voltage fluctuation	±2%.F.S.or less (24VDC±10%)							
Response time			5ms or less		8ms or less		5ms or less		8ms or less
Cu	rrent consumption	30mA or less							
Po	wer supply voltage			;	24VDC±10%, ri	pple 1% or less	3		

^{*} The analog output indicates 3 V for Bi-directional type and 1 V for Uni-directional type respectively when the flow rate is 0, and changes to 5 V when the fluid flows to the right (when the connector cable is to the right of the body).

RoHS2 (2011/65/EU+EU2015/863) compliant

RoHS2 (2011/65/EU+EU201	orodo) dompilant				
Туре	Model code		Туре	Model code	
туре	FUS8-A-F4-56-7-8		Туре	FUS8-A-R4-56-7-8	
Uni-directional type	FUS8-A-F005		Bi-directional type	FUS8-A-R005	
FUS8	FUS8-A-F005-3		FUS8	FUS8-A-R005-3	
	FUS8-A-F005-56		Control of the Contro	FUS8-A-R005-56	
#UTE - A- FORM OF D	FUS8-A-F005-56-3		FIRST LOSS OF THE STATE OF D	FUS8-A-R005-56-3	
	FUS8-A-F005-56-3-NH			FUS8-A-R005-56-3-NH	
The same of the sa	FUS8-A-F010			FUS8-A-R010	
øD	FUS8-A-F010-3		øD	FUS8-A-R010-3	
	FUS8-A-F010-56			FUS8-A-R010-56	
	FUS8-A-F010-56-3			FUS8-A-R010-56-3	
	FUS8-A-F010-56-3-NH			FUS8-A-R010-56-3-NH	
	FUS8-A-F050			FUS8-A-R050	
	FUS8-A-F050-3			FUS8-A-R050-3	
	FUS8-A-F050-56			FUS8-A-R050-56	
	FUS8-A-F050-56-3			FUS8-A-R050-56-3	
	FUS8-A-F050-56-3-NH			FUS8-A-R050-56-3-NH	
	FUS8-A-F100			FUS8-A-R100	
* The above picture	FUS8-A-F100-3 FUS8-A-F100-56		* The above picture is image of the one with push-in fittings, a	FUS8-A-R100-3	
is image of the one				FUS8-A-R100-56	
with push-in fittings, a connector cable and a	FUS8-A-F100-56-3	JS8-A-F100-56-3		FUS8-A-R100-56-3	
mounting bracket.	FUS8-A-F100-56-3-NH		mounting bracket.	FUS8-A-R100-56-3-NH	
		Opt	ions		
Туре	Model code		Туре	Model code	
Connector cable	FUS8-C33		Mounting bracket	FUSH008P01	
FUS8-C33			FUSH		
3					



Notes

* Please select a code for port size and connection type for 5 and 6 in model code., refferring to the Model Designation (Example) on plage 197.



Packaging specifications

1 pc. /bag