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Flow sensor for compressed air, tester kit

PFK Series

Air flow rate measuring component kit is available to measure the flow rate instantly at workshop.

- Flow rate range: 25 to 500, 50 to 1000, 100 to 2000, 200 to 4000, 400 to 8000Nℓ/min

Specifications

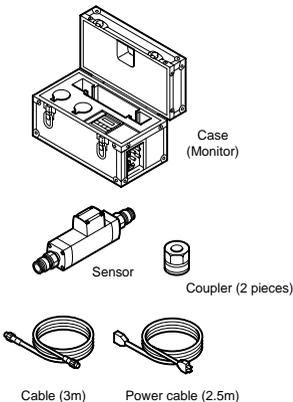
Descriptions	PFK500D	PFK1000D	PFK2000D	PFK4000D	PFK8000D
Spec.					
Flow rate range Nℓ/min	25 to 500	50 to 1000	100 to 2000	200 to 4000	400 to 8000
Port size	Rc1/2	Rc1/2	Rc1/2	Rc1	Rc1 1/2
Working conditions	Compressed air / N ₂ gas				
Applicable fluid	Compressed air / N ₂ gas				
Working air quality	Atmospheric dew point -17°C or less (* 1)				
Max. working pressure MPa	1.5				
Min. working pressure MPa	0.1				
Withstanding pressure MPa	2.25				
Ambient temperature and humidity	0 to 50°C 85%RH or less				
Fluid temperature °C	0 to 40				
Accuracy	± 1.5%F.S (0.7MPa and 20°C)				
Linearity	± 1.5%F.S (0.1 to 1.5MPa, 0.7MPa standard)				
Pressure characteristics	± 2.0%F.S (0 to 40°C, 20°C standard)				
Temperature characteristics	± 2.0%F.S (0 to 40°C, 20°C standard)				
Response time sec	Approx. 1.25				
Output	Standard DC0 to 5V Option: DC4 to 20mA, 1 to 5V and 0 to 10V				
Analog output	Standard DC0 to 5V Option: DC4 to 20mA, 1 to 5V and 0 to 10V				
Switch output	Relay contact (1ch, a contact)				
Power voltage	AC100V ± 10% (10W or less)				
Cable	Auxiliaries (3m connector, 0.5mm ² conductor) * 2				
Set value holding function	Semipermanent due to EEPROM				
Installation	Both vertical and horizontal (resin cover facing downward excluded)				
Installation attitude	Both vertical and horizontal (resin cover facing downward excluded)				
Installation strait piping section	Not required				
Protective structure	Equivalent to IP64 (sensor section only)				
Mass kg	5.6		7.4		9.2

* 1: If foreign matter, water or oil is contained in the compressed air, detecting flow rate could be failed, so * sensor error * is displayed.

Always install a filter, refrigerating type dryer and oil mist filter before a flow sensor.

* 2: Extension cable (3m) can be connected. Model no. PF-FL-280775

Product structure



How to order

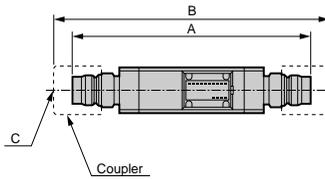
PFK 4000D

Ⓐ Flow rate range

Symbol	Descriptions
Ⓐ	Flow rate range
500D	25 to 500N ℓ/min
1000D	50 to 1000N ℓ/min
2000D	100 to 2000N ℓ/min
4000D	200 to 4000N ℓ/min
8000D	400 to 8000N ℓ/min

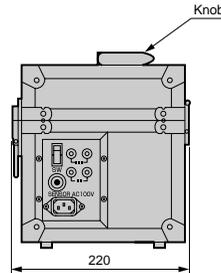
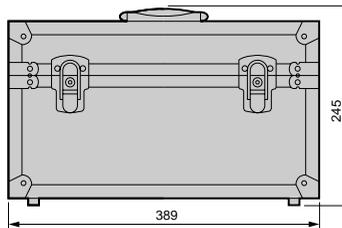
Dimensions

- PFK
Sensor section



	A	B	C
Sensor for PFK500D to 2000D	215	251	Rc1/2
Sensor for PFK4000D	292	338	Rc1
Sensor for PFK8000D	338	390	Rc1 1/2

- Case



Refrigerating type dryer
Desiccant type dryer
High polymer membrane dryer
Air filter
Automatic drain other
F.R.L (Module)
F.R.L (Separate)
Small F.R.
Precise R.
Electro pneumatic R.
Auxiliary
Flow control valve
Silencer
Check valve / others
Joint / tube
Vacuum F.
Vacuum R.
Vacuum generator
Vacuum auxiliary / pad
Mechanical pressure SW
Electronic pressure SW
Electronic dif. pres. SW
Seating / close contact conf. SW
Pressure SW for coolant
Flow sensor for air
Total air system

Water cooling refrigerator
Flow sensor for water

Flow sensor
For compressed air