

Features

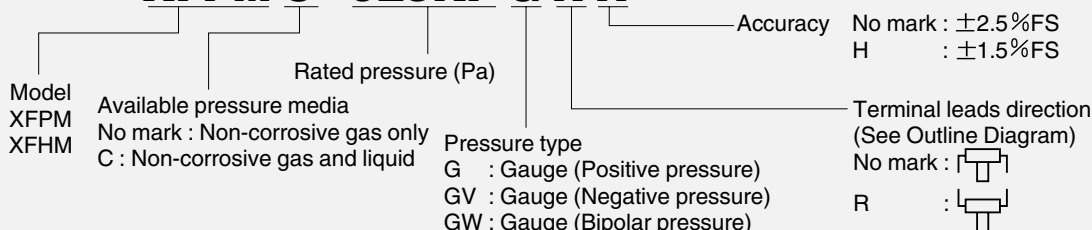
- Two accuracy ranks, $\pm 1.5\%$ FS and $\pm 2.5\%$ FS available
- Volt level output
- On-chip amplification and temperature compensations
- Pre-calibration of offset voltage and span
- Non-corrosive liquid measurable (XFPMC, XFHMC only)

Applications

- Industrial instrumentation
- Pressure switch, Pneumatic device
- Medical device

Part number for ordering

XFPM C - 025KP G R H



Pressure type	Gauge pressure	
	XFPM	XFHM
Model		
Package configuration	Dual-In-line-Package (DIP)	Horizontal pressure port DIP

Measurable pressure range (kPa)	Part number for ordering							
—100 ~ 100	XFPM-100KPGW(H)	XFPM-100KPGWR(H)	XFPMC-100KPGW(H)	XFPMC-100KPGWR(H)	XFHM-100KPGW(H)	XFHM-100KPGWR(H)	XFHMC-100KPGW(H)	XFHMC-100KPGWR(H)
0 ~ 100	XFPM-100KPGV(H)	XFPM-100KPGVR(H)	XFPMC-100KPGV(H)	XFPMC-100KPGVR(H)	XFHM-100KPGV(H)	XFHM-100KPGVR(H)	XFHMC-100KPGV(H)	XFHMC-100KPGVR(H)
0 ~ 25	XFPM-025KPG(H)	XFPM-025KPGR(H)	XFPMC-025KPG(H)	XFPMC-025KPGR(H)	XFHM-025KPG(H)	XFHM-025KPGR(H)	XFHMC-025KPG(H)	XFHMC-025KPGR(H)
0 ~ 50	XFPM-050KPG(H)	XFPM-050KPGR(H)	XFPMC-050KPG(H)	XFPMC-050KPGR(H)	XFHM-050KPG(H)	XFHM-050KPGR(H)	XFHMC-050KPG(H)	XFHMC-050KPGR(H)
0 ~ 100	XFPM-100KPG(H)	XFPM-100KPGR(H)	XFPMC-100KPG(H)	XFPMC-100KPGR(H)	XFHM-100KPG(H)	XFHM-100KPGR(H)	XFHMC-100KPG(H)	XFHMC-100KPGR(H)
0 ~ 200	XFPM-200KPG(H)	XFPM-200KPGR(H)	XFPMC-200KPG(H)	XFPMC-200KPGR(H)	XFHM-200KPG(H)	XFHM-200KPGR(H)	XFHMC-200KPG(H)	XFHMC-200KPGR(H)
0 ~ 1000	XFPM-001MPG(H)	XFPM-001MPGR(H)	XFPMC-001MPG(H)	XFPMC-001MPGR(H)	XFHM-001MPG(H)	XFHM-001MPGR(H)	XFHMC-001MPG(H)	XFHMC-001MPGR(H)

Specifications

Model/Rated pressure	100KPGW(H)	100KPGV(H)	025KPG(H)	050KPG(H)	100KPG(H)	200KPG(H)	001MPG(H)	Unit	
Recommended operating conditions									
Pressure type	Gauge pressure							—	
Rated pressure	±100	—100	25	50	100	200	1000	kPa	
	±1.020	—1.020	0.255	0.510	1.020	2.040	10.20	kg/cm²	
Measurable pressure range	—100~100	0~—100	0~25	0~50	0~100	0~200	0~1000	kPa	
Pressure media ※1	XFPM, XFHM : Non-corrosive gas only, XFPMC, XFHMC : Non-corrosive gas and liquid							—	
Excitation voltage	5.0±0.25							VDC	
Absolute maximum rating	Twice of rated pressure							1.5times of rated pressure	—
Maximum load pressure									
Maximum excitation voltage	8							VDC	
Operating temperature	—40~125							℃	
Storage temperature	—40~125							℃	
Operating humidity	30~80 (No dew condensation)							%RH	
Electric performances/characteristics(Excitation voltage Vcc=5.0V constant, Ambient temperature Ta=25℃)									
Current consumption	less than 10							mA	
Output impedance	less than 10							Ω	
Source current	less than 0.2							mA	
Sink current	less than 2							mA	
Mechanical response time	2 (For the reference)							msec	
Full scale span voltage	4.5							V	
Offset voltage ※2	0.2±0.1125, 0.2±0.0675(H)							V	
Full scale span voltage ※2	4.7±0.1125, 4.7±0.0675(H)							V	
Accuracy ※2	2.5, ±1.5(H)							%FS/0~85℃	

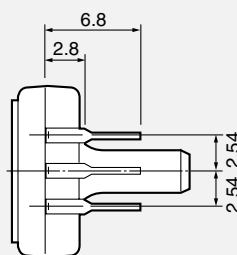
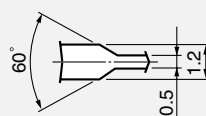
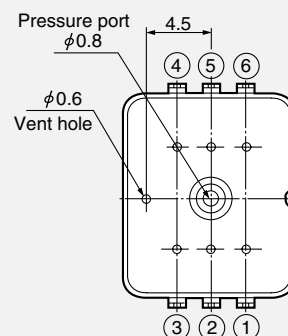
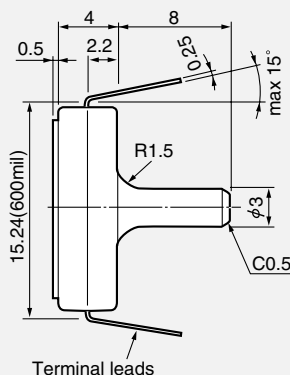
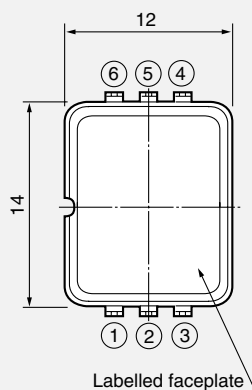
Note ; ※1) Please consult us available liquid pressure media when you choose the C models.

※2) Excluding input voltage error.

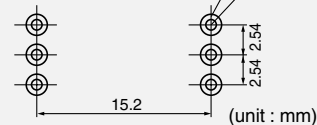
Outline dimensions

unit : mm

XFPM

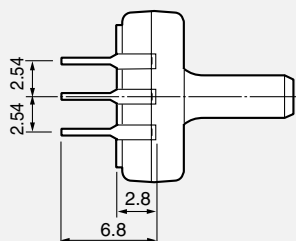
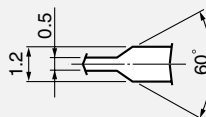
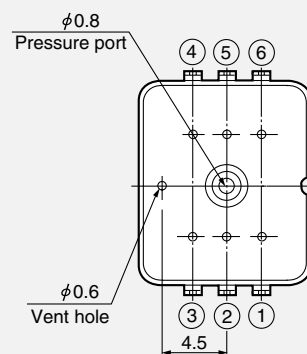
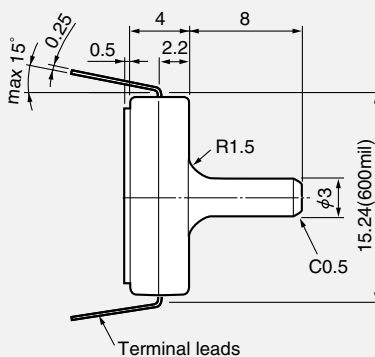
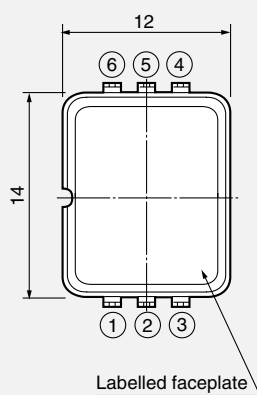


Recommended footprint for PCB

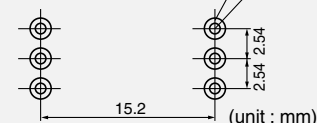
6- $\phi 0.9$ (Diameter of through holes)6- $\phi 1.8$ (Diameter of lands)

XFPM-R

unit : mm

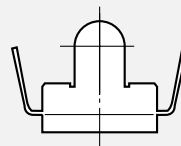
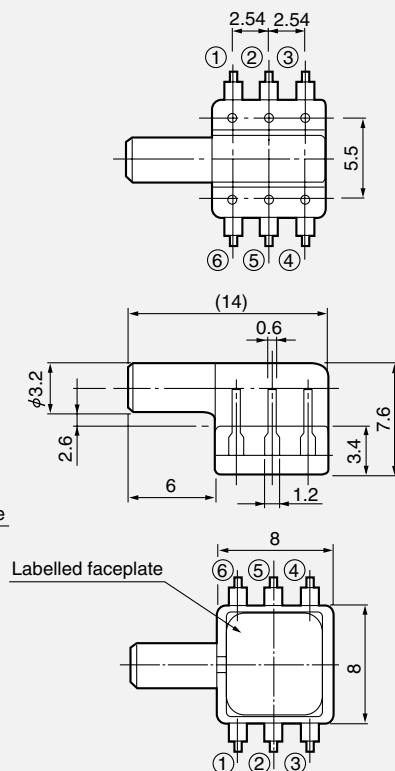


Recommended footprint for PCB

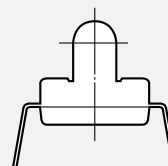
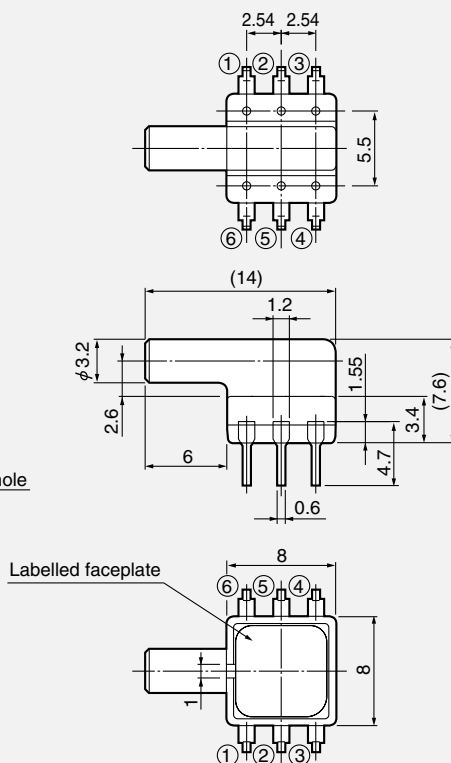
6- $\phi 0.9$ (Diameter of through holes)6- $\phi 1.8$ (Diameter of lands)

XFHM

Technical drawing of a Venturi flowmeter. The device has a central cylindrical body with a diameter of 10.15. The throat has a diameter of 0.25. The inlet and outlet ports are angled at 15 degrees. A pressure port is located at the top of the throat, and a vent hole is located at the bottom of the body.

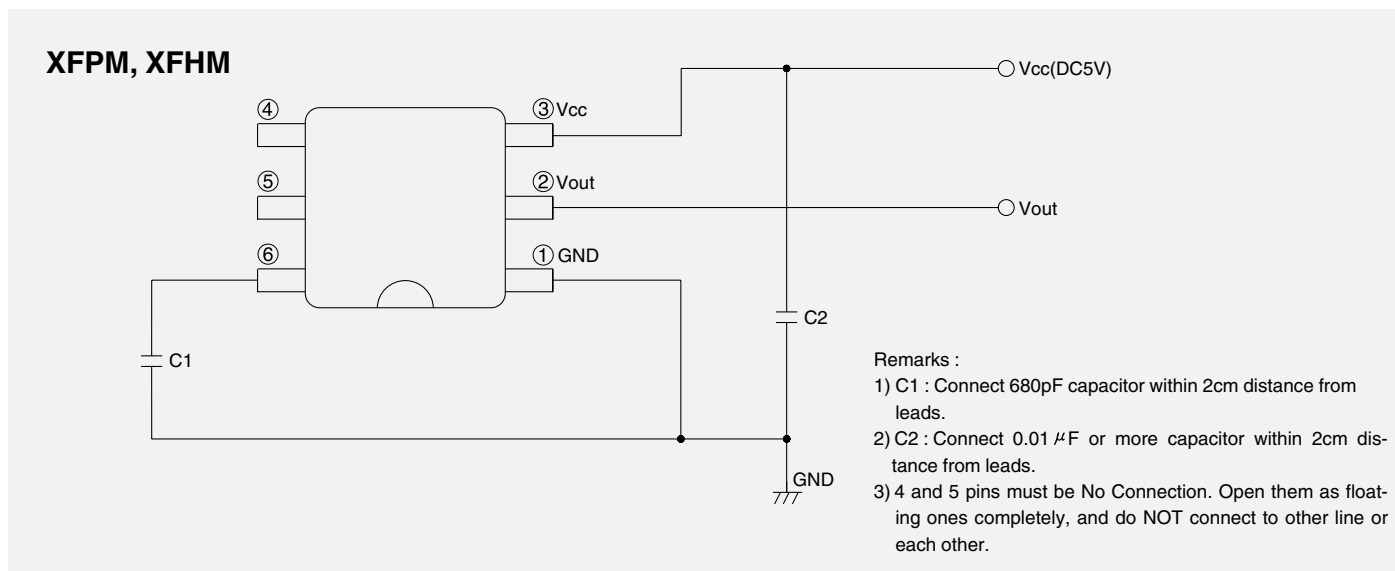


(unit : mm)



(unit : mm)

■ Connection diagram ■



Note ; Please read instruction "Notes" before using the sensor.
Fujikura reserves the right to change specifications without notice.

Fujikura Ltd.

P.P.H.WObit mgr.inz.Witold Ober
ul.Gruszkowa 4 61-474 Poznań
Tel:61-8350620/621 Fax:61-8350704
email: wobit@wobit.com.pl <http://www.wobit.com.pl>