

## Features

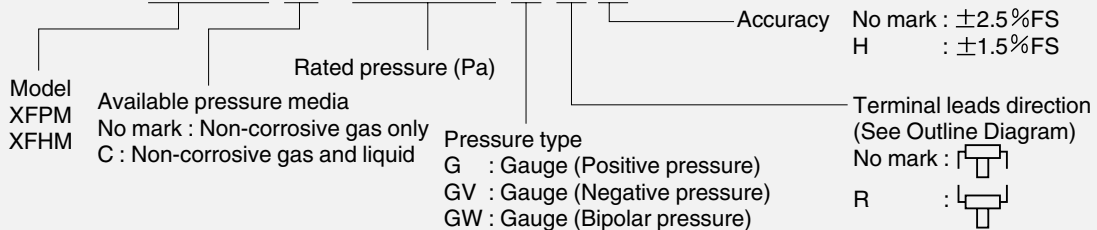
- Two accuracy ranks,  $\pm 1.5\%$ FS and  $\pm 2.5\%$ FS available
- Volt level output
- On-chip amplification and temperature compensations
- Pre-calibration of offset voltage and span
- Non-corrosive liquid measurable (XFPMC, XFHMC only)

## 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                                                                                 |                                                                                  |            |           |           |           |           |                            |           |
| Maximum load pressure                                                                                   | Twice of rated pressure                                                          |            |           |           |           |           | 1.5times of rated 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℃ |

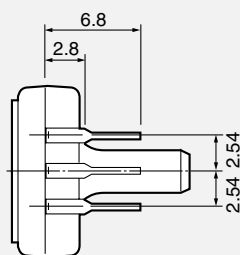
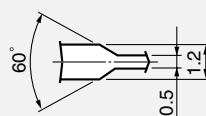
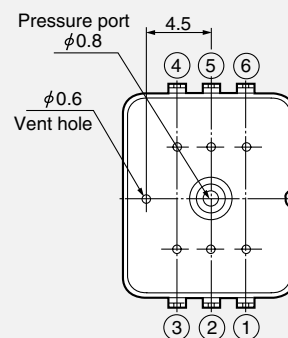
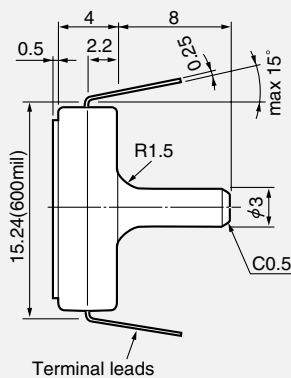
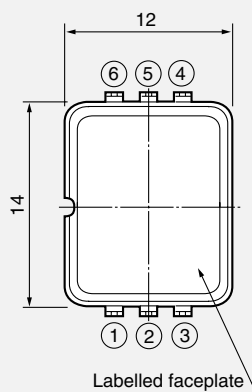
Note ; ※1) Please consult us available liquid pressure media when you choose the C models.

※2) Excluding input voltage error.

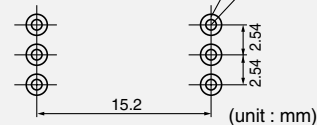
# Outline dimensions

unit : mm

## XFPM

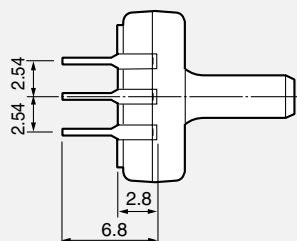
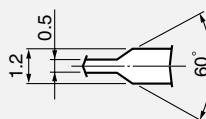
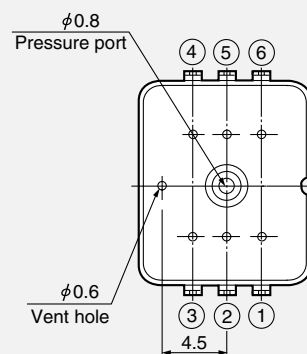
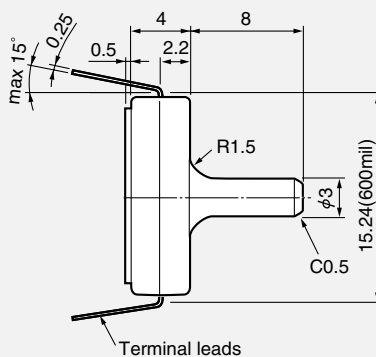
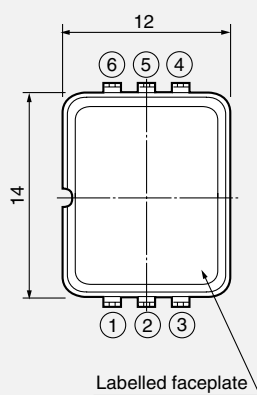


### Recommended footprint for PCB

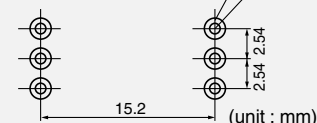
6-  $\phi 0.9$  (Diameter of through holes)6-  $\phi 1.8$  (Diameter of lands)

## XFPM-R

unit : mm

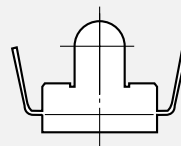
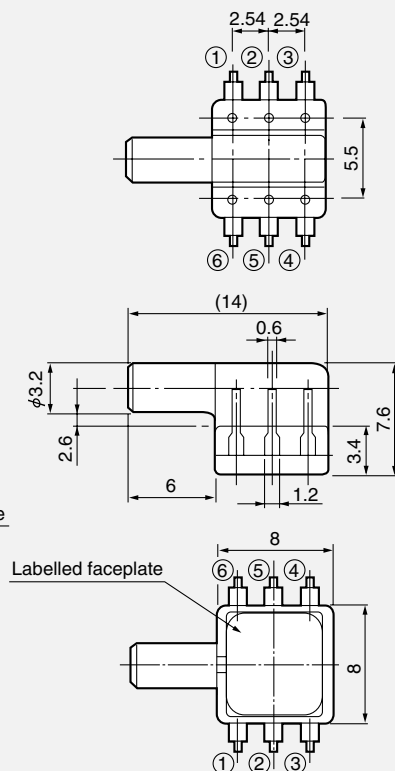


### Recommended footprint for PCB

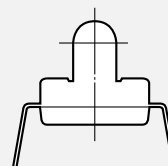
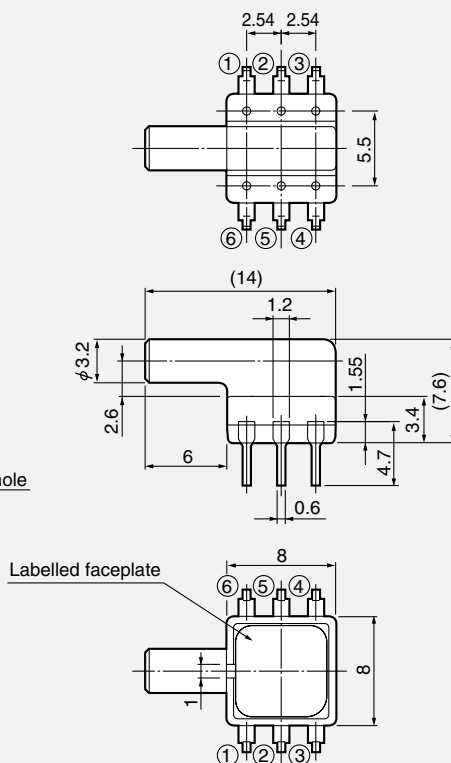
6-  $\phi 0.9$  (Diameter of through holes)6-  $\phi 1.8$  (Diameter of lands)

**XFHM**

Technical drawing of a Venturi flowmeter. The device has a central horizontal tube with a constriction. The inlet on the left is at a 15° angle. The outlet on the right is at a 0.25 angle. A pressure port is located at the top of the constriction, and a vent hole is at the bottom. Dimensions include a diameter of 10.15 at the inlet and a diameter of 1 at the constriction.

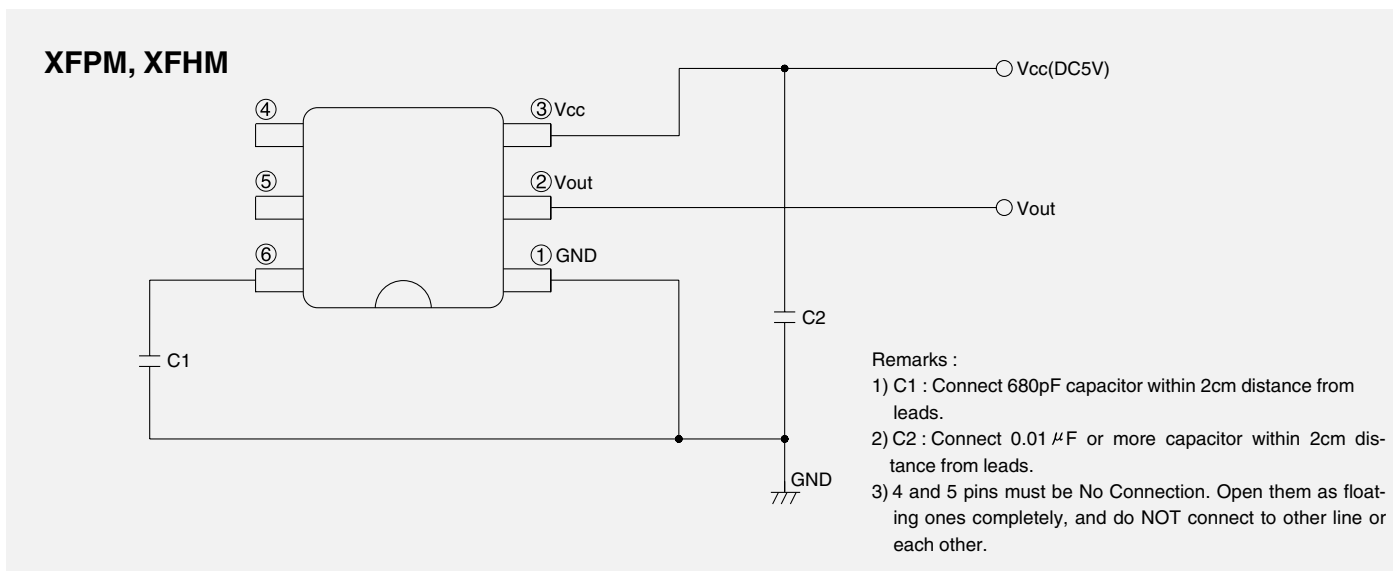


(unit : mm)



(unit : mm)

### ■ Connection diagram ■



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

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