

SPECIFICATIONS

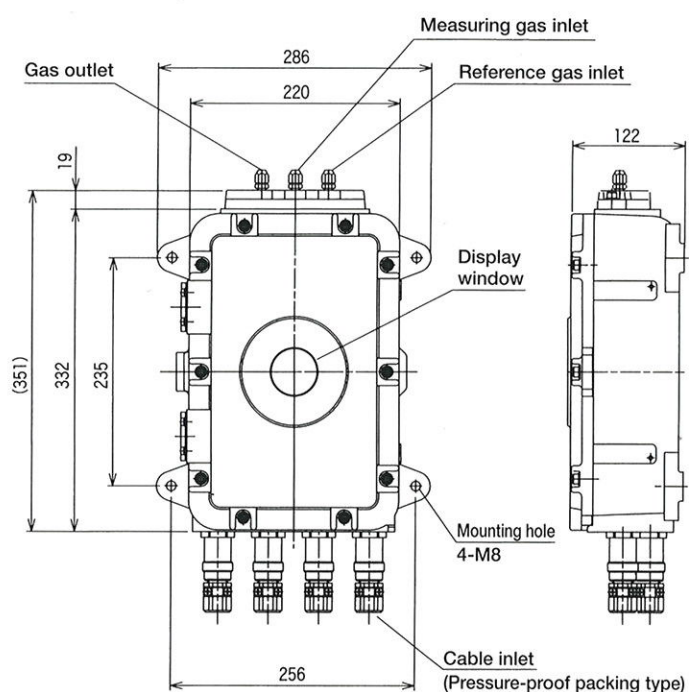
| | |
|----------------------------|--|
| Model | FI-800 |
| Detection principle | Optical interferometric method |
| Measuring gas | Combustible gases & vapors (Please specify when ordering) |
| Outputs | 4~20mA DC (Current output type), resistive load Max 300 Ω |
| Display | Digital LCD display |
| Relay contacts | 1 st alarm contact, 2 nd alarm contact |
| Alarm indication | AL1, AL2, LED light |
| Self-diagnostic function | Low sample flow, decrease of light amount for interferometer light source, decrease of interferometer contrast |
| Operating temp. & humidity | -10°C ~ +40°C, below 80%RH (Condensing gas inside FI-800 is not available) |
| Power requirement | 100VAC ~ 220VAC ± 10%, 50/60Hz, max.80VA |
| Structure | Flame-proof Exd II B + H ₂ T ₄ , Approval No.C16730 in Japan |
| Outer dimensions | Approx. 220 (W) × 332 (H) × 122 (D)mm |
| Weight | Approx. 16kg |

•Specifications subject to change without notice.

MEASURING RANGE

| Measuring gas | Measuring range |
|----------------|--------------------------|
| Hydrogen | 0 ~ 100vol.% |
| Toluene | 0 ~ 100%LEL |
| MEK | 0 ~ 100%LEL |
| Xylene | 0 ~ 100%LEL |
| IPA | 0 ~ 100%LEL |
| Ethyl acetate | 0 ~ 100%LEL |
| Ethyl alcohol | 0 ~ 100%LEL |
| Normal hexane | 0 ~ 100%LEL |
| Methyl alcohol | 0 ~ 100%LEL |
| Buthyl acetate | 0 ~ 100%LEL |
| MIBK | 0 ~ 100%LEL |
| Propane-air | 50 ~ 75MJ/m ³ |
| City gas (LNG) | 25 ~ 50MJ/m ³ |

DESIGNATIONS



Unit : mm

RIKEN

Optical interferometric method based on image sensor

GAS ANALYZER

MODEL FI-800

Explosion proof for Hydrogen
Exd II B + H₂T₄
Approval No.C16730

SOLVENT GAS MONITORING

In drying oven
MEK, Toluene, Xylene, IPA,
Ethyl acetate

FUEL GAS CALORIE CONTROL

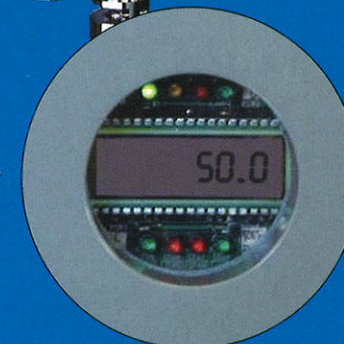
City gas, LPG

PURITY CONTROL

In inert gas, in air
H₂ in air



Display



■ Features

- Minimal maintenance cost.
- Applied LED as light source makes low deterioration.
- Optical interferometric sensor makes no sensitivity deterioration.
- No sensor poisoning by corrosive gases and silicone vapors.
- Provides temperature and pressure compensation.

★ Distributed by:



RIKEN KEIKI CO.,LTD.

2-7-6 Azusawa, Itabashi-ku, Tokyo 174-8744, Japan

Phone : TOKYO (03)3966-1113

Telefax : TOKYO (03)3558-9110 (GIII)

E-mail : intdept@rikenkeiki.co.jp

Web site : <http://www.rikenkeiki.co.jp>



95QR 007

Object place of business
Tokyo factory, Okegawa factory



97ER 005

Object place of business
Tokyo factory



RIKEN KEIKI

Only one in the world !!
Explosion-proof with H₂T4

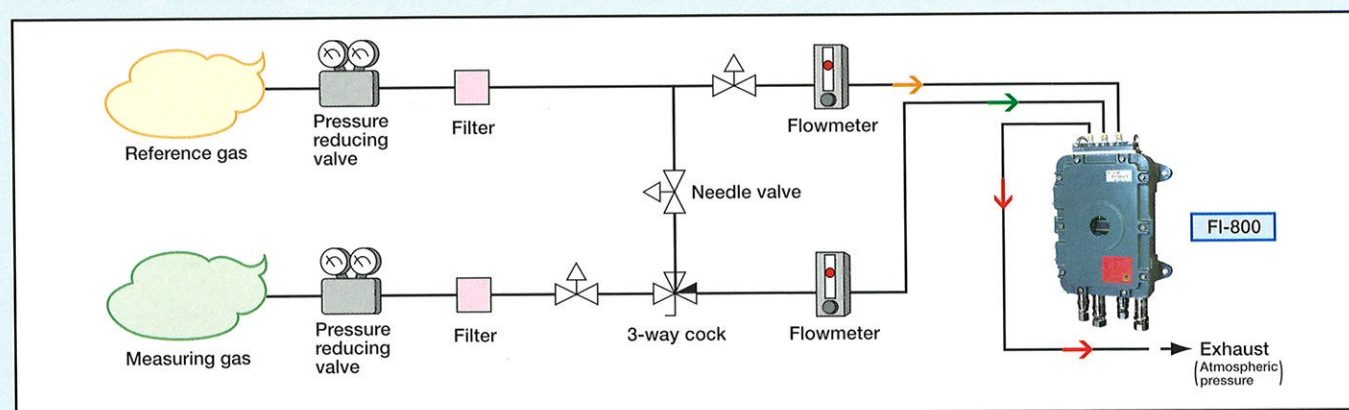
GAS ANALYZER

Model **FI-800**

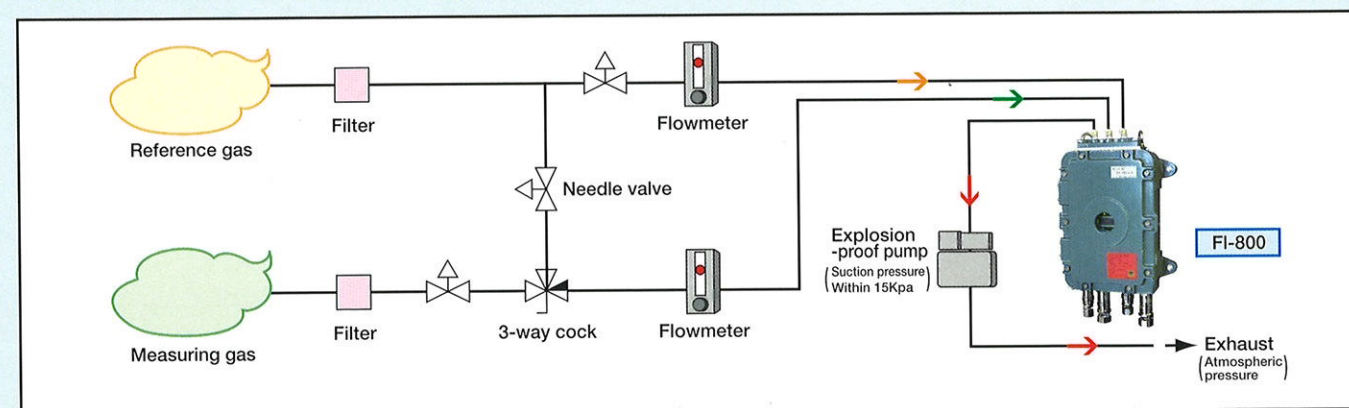
- Explosion-proof indicator for Hydrogen gas accepts any installation places.
- Applied optical interferometer as measuring principle keeps distinguished long stability.
- No sensitivity deterioration against corrosive gases, silicon vapors, etc.
- Long life light source with LED.
- High accurate measurement with Fourier analysis technology.
- No reference gas required for the measurement of fuel gas calorie.
- Continuous measurement, minimal maintenance cost.

Measuring method

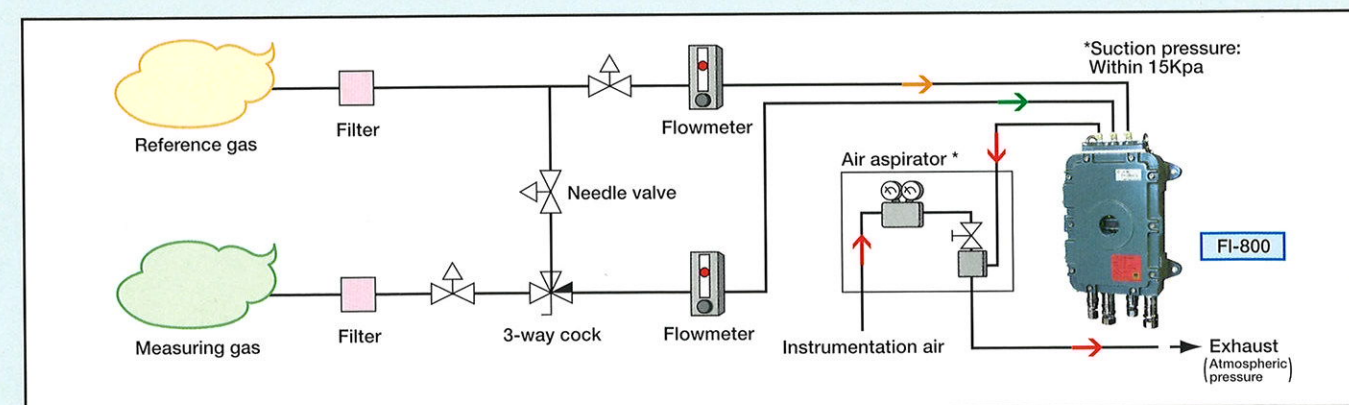
Case1 : Measurement of pressurized gas



Case2 : Measurement of gas in atmospheric pressure (Sample drawing with pump)

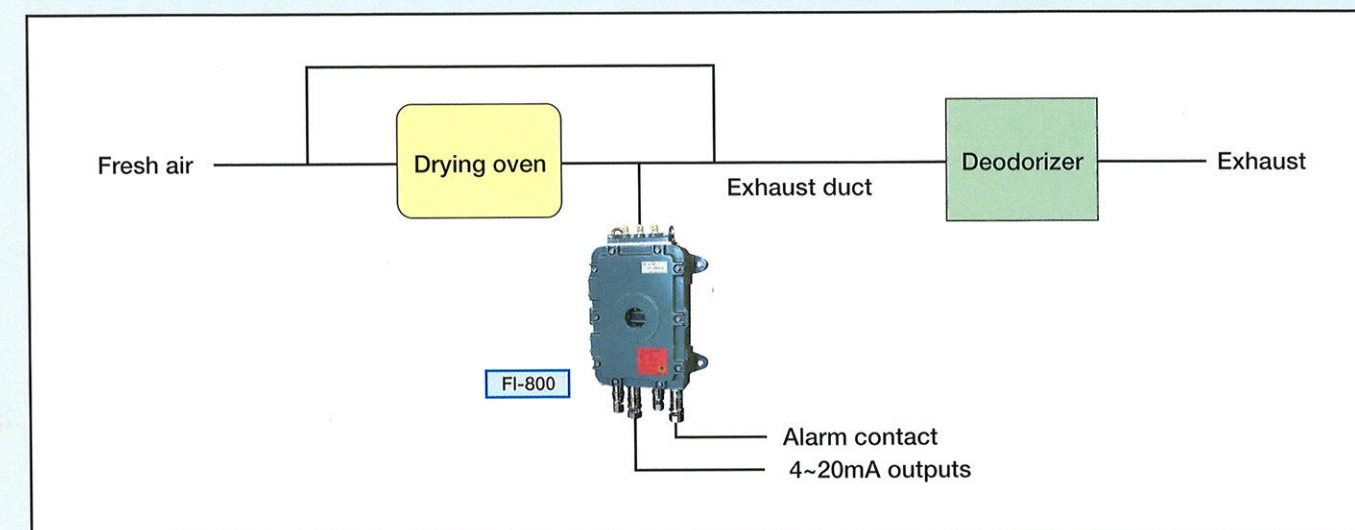


Case3 : Measurement of gas in atmospheric pressure (Sample drawing with air aspirator)

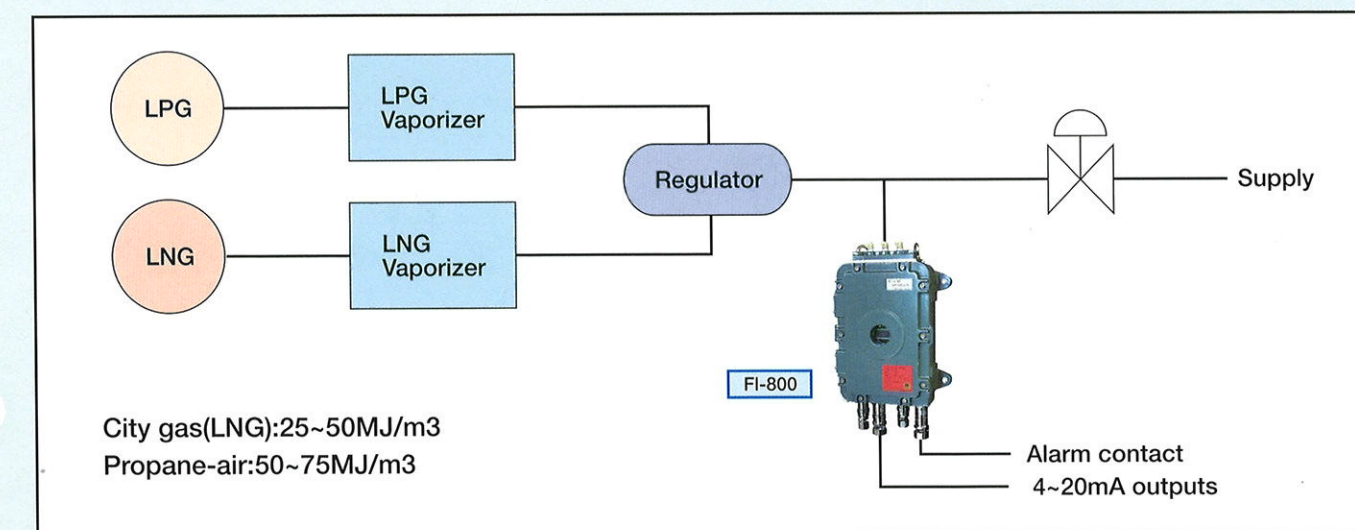


Applications

To Control solvent gas concentration in drying facilities



To Control the calorie of city gas, etc.



To Control the purity of several gases

