

GTD-5200F

Explosion proof Interference Gas Filtering Multi gas detector



DESCRIPTION

GTD-5200F is a product specialized in detecting gases used in semiconductor manufacturing processes. Applied interference gas filtering algorithm and able to maximize the stability and spatial efficiency with dual sensors. Its structure is designed as explosion proof which can prevent the second accident.

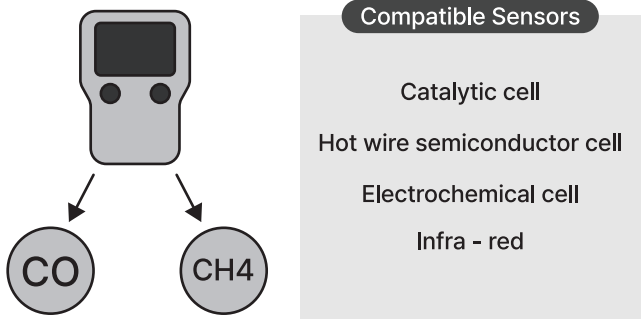
FEATURE

- ▶ Compatible with four types of sensors
- ▶ Interference gas filtering algorithm
- ▶ Explosion proof structure
- ▶ Able to detect two gases at once
- ▶ Embedded high-function pump
- ▶ Relay output

Dual Sensor Solution

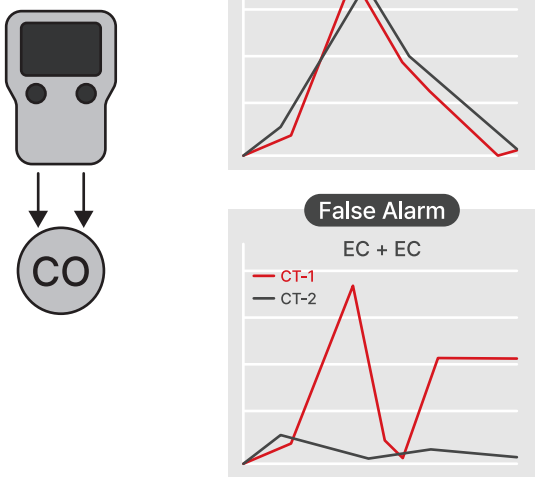
Multi-Detection

Detecting two different gases with one detector can reduce the number of units, maximize spatial efficiency, and provide a maintenance advantage.



Cross-Detection

Cross-detecting one gas with two sensors. It can increase the stability as distinguish the real alarm and false alarm.



Sensor Specification

| Measuring Method | Measurable gas | Measuring Range | Response time |
|-----------------------------|----------------|-----------------|---------------------|
| Infrared | Freon gas | 0~2000ppm | < 15sec / 90% scale |
| | Flammable gas | 0~100% LEL | < 15sec / 90% scale |
| | Toxic gas | - | < 15sec / 90% scale |
| Catalytic cell | Flammable gas | 0~100% LEL | < 15sec / 90% scale |
| Hot wire semiconductor cell | Flammable gas | 0~2000ppm | < 15sec / 90% scale |
| Electrochemical cell | O2 | - | < 15sec / 90% scale |
| | Toxic | - | < 45sec / 90% scale |
| | Flammable gas | - | < 15sec / 90% scale |

Detector Specification

| | |
|-----------------------|---|
| Measuring type | Auto sampling type |
| Accuracy | ±3% / Full scale |
| Control | Non intrusive control with a Magnet bar |
| Display | 2.0" Color TFT LCD |
| Alarm signal output | 5A@30VDC, 5A@250VAC / 3 Relay contact (2-Stage alarm, 1-Trouble) |
| Output signal | Analog 4-20mA, RS-485 Modbus, Relay, PoE (Option) |
| Sampling method | Diaphragm pump |
| Sampling line | OD 1/4 "(Standard) |
| Flow rate | 100 ~ 1000 ml/min (Normal 500 ml/min) |
| Material | Aluminum alloy |
| Conduit connection | Standard : PF 3/4" Option : NPT 3/4" M25 PF 1/2" NPT 1/2" M20 (With Explosion proof reducer) |
| Mounting type | Wall mount |
| Operating temperature | -10°C ~ 60°C |
| Operating humidity | 5~99% RH (Non-condensing) |
| Dimensions | 200(W) × 161(H) × 139(D) mm |
| Weight | 4kg |
| Power | Standard : 16~32V (PoE option :37~57V) |