

Analog Output Gas Detector Heads



CVVS

Analog output gas detector head

- A detector head directly outputs analog signals, which makes it simple to connect to higher level systems.
- Socket type sensors are adopted for easy maintenance.
- Earthquake-resistant vehicle-mountable specification heads are available. (KD-5S)
- KD-8 and PD-8F (N) detector heads are able to indicate concentration by themselves.
- PD-8F has a low flow detection function.

Diffusion type

KD-5S

Detection Principle: Hot wire semiconductor sensor, Catalytic combustion sensor

Type of Gas Detected: Combustible gas



Specifications

| Model | KD-5S |
|-----------------------------|--|
| Detection Principle | Hot wire semiconductor or Catalytic combustion |
| Gas Detected | Combustible gas |
| Detection Range | As per specifications |
| Power Source for Sensor | 24V DC±10% |
| Power Consumption | Approx. 5W |
| Output Signal | 4-20mA DC |
| Maximum Loop Length | 1km (with 2mm ² cable) |
| Sampling Method | Diffusion type |
| Explosion-Proof Structure | d2G4 |
| Operating Temperature Range | -10°C to 60°C |
| Applicable Cable | 3C shielded |
| Weight | Approx. 1kg |

Diffusion type

KD-8

Detection Principle: Hot wire semiconductor sensor, Catalytic combustion sensor, Thermal conductivity sensor

Type of Gas Detected: Combustible gas



Specifications

| Model | KD-8 |
|------------------------------|---|
| Detection Principle | Hot wire semiconductor, Catalytic combustion, or Thermal conductivity |
| Gas Detected | Combustible gas |
| Detection Range | As per specifications |
| Gas Concentration Indication | -9 to 00%FS LED display (00 flashing at over-range, -9 flashing at below-range) |
| Alarm Set Value | As per specifications |
| Alarm Accuracy | ±25% (under identical conditions) |
| Trouble Indication | LED display (Sensor wire break) |
| Power Source | 100V AC±10% or 24V DC±10% |
| Power Consumption | Approx. 5VA |
| Output Signal | 4-20mA DC or contact output |
| Maximum Loop Length | 1km (with 2mm ² cable) |
| Sampling Method | Diffusion type |
| Explosion-Proof Structure | d2G4 |
| Operating Temperature Range | -10°C to 60°C |
| Applicable Cable | 2C+2C shielded |
| Dimensions | W224×H335×D153mm(Excluding protrusions) |
| Weight | Approx. 5kg |

Diffusion type

KD-80

Detection Principle: Galvanic cell sensor

Type of Gas Detected: Oxygen concentration



Specifications

| Model | KD-80 |
|------------------------------|---|
| Detection Principle | Galvanic cell |
| Gas Detected | Oxygen |
| Detection Range | As per specifications |
| Gas Concentration Indication | -9 to 00%FS LED display (00 flashing at over-range, -9 flashing at below-range) |
| Alarm Set Value | As per specifications |
| Alarm Accuracy | ± 1vol% (under identical conditions; when the Alarm Set Value is 21vol% or lower) |
| Trouble Indication | LED display (Sensor failure) |
| Power Source | 100V AC±10% or 24V DC±10% |
| Power Consumption | Approx. 5VA |
| Output Signal | 4-20mA DC or contact output |
| Maximum Loop Length | 1km (with 2mm ² cable) |
| Sampling Method | Diffusion type |
| Explosion-Proof Structure | d2G4 |
| Operating Temperature Range | 0°C to 40°C |
| Applicable Cable | 2C+2C shielded |
| Dimensions | W224×H335×D153mm(Excluding protrusions) |
| Weight | Approx. 5kg |

Suction type

PD-8F

Detection Principle: Hot wire semiconductor sensor, Catalytic combustion sensor

Type of Gas Detected: Combustible gas



Specifications

| Model | PD-8F (with low flow detection function) |
|------------------------------|---|
| Detection Principle | Hot wire semiconductor or Catalytic combustion |
| Gas Detected | Combustible gas |
| Detection Range | As per specifications |
| Gas Concentration Indication | -9 to 00%FS LED display (00 flashing at over-range, -9 flashing at below-range) |
| Alarm Set Value | As per specifications |
| Alarm Accuracy | ±25% (under identical conditions) |
| Trouble Indication | LED display (Sensor wire break) |
| Power Source | 100V AC±10% or 24V DC±10% |
| Power Consumption | Approx. 10VA |
| Output Signal | 4-20mA DC or contact output |
| Maximum Loop Length | 1km (with 2mm ² cable) |
| Sampling Method | Suction type |
| Explosion-Proof Structure | d2G4 |
| Operating Temperature Range | -10°C to 60°C |
| Applicable Cable | 4C+2C shielded |
| Dimensions | W224×H335×D153mm(Excluding protrusions) |
| Weight | Approx. 5kg |

Suction type

PD-8N

Detection Principle: Hot wire semiconductor sensor, Catalytic combustion sensor

Type of Gas Detected: Combustible gas



Specifications

| Model | PD-8N (without low flow detection function) |
|------------------------------|---|
| Detection Principle | Hot wire semiconductor or Catalytic combustion |
| Gas Detected | Combustible gas |
| Detection Range | As per specifications |
| Gas Concentration Indication | -9 to 00%FS LED display (00 flashing at over-range, -9 flashing at below-range) |
| Alarm Set Value | As per specifications |
| Alarm Accuracy | ±25% (under identical conditions) |
| Trouble Indication | LED display (Sensor wire break) |
| Power Source | 100V AC±10% or 24V DC±10% |
| Power Consumption | Approx. 10VA |
| Output Signal | 4-20mA DC or contact output |
| Maximum Loop Length | 1km (with 2mm ² cable) |
| Sampling Method | Suction type |
| Explosion-Proof Structure | d2G4 |
| Operating Temperature Range | -10°C to 60°C |
| Applicable Cable | 2C+2C shielded |
| Dimensions | W224×H452×D174mm(Excluding protrusions) |
| Weight | Approx. 7kg |