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*K800-N*



*K800-D*



*K800-DA*

### **Fixed gas detector:**

The 2 or 3 or 4 wire, 4-20mA and RS485 MODBUS output K800 series fixed device provides continuous detection and monitoring of gases for a wide range of industrial environments.

The fixed gas detector adopts advanced catalytic gas sensor or electrochemical sensor, which can translate the gas concentration in the air to the digital signal output.

#### **Application**

The detector working with gas controller are widely used to detect gas in refinery, chemical plant, LPG station, boiler room, painting plant and other places with gas exists, effectively protect personnel and plant from flammable, toxic and oxygen hazards.

#### **Key Features**

- 1) Digital and analog outputs
- 2) LCD light status indicator for alarm conditions
- 3) The relay can trigger alarms or process controls
- 4) Three models available measure toxic gases, VOCs, or combustibles
- 5) Explosion-proof enclosure
- 6) CERTIFICATIONS: CE, UL, CMC, Ex, MA (SAFETY CERTIFICATE OF APPROVAL FOR COAL MINING PRODUCTS IN CHINA )

## Technical Specifications

| Item:                              |                         | Fixed gas detector                                                                                  |                         |                                      |
|------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------|
| Sensor Cell:                       |                         | UK sensors (brand CITY, Alphasense, Dynament etc.), US (brand Honeywell), Japan and Germany sensors |                         |                                      |
| Lifetime of detector:              |                         | 2 – 5 years                                                                                         |                         |                                      |
| Sample mode                        |                         | Diffusion                                                                                           |                         |                                      |
| Output signals:                    |                         | 4-20mA/RS485                                                                                        |                         |                                      |
| Operating voltage:                 |                         | 24V DC                                                                                              |                         |                                      |
| Display                            |                         | LCD display                                                                                         |                         |                                      |
| Transmission cable                 |                         | Three core shield cable                                                                             |                         |                                      |
| Ambient temperature:               |                         | - 40 ° C ~ + 50 ° C                                                                                 |                         |                                      |
| Relative humidity:                 |                         | 15~95%RH(non condensation)                                                                          |                         |                                      |
| Working Pressure:                  |                         | 86~106Kpa                                                                                           |                         |                                      |
| Detection precision:               |                         | ±5%FS                                                                                               |                         |                                      |
| Net Weight:                        |                         | < 1kg                                                                                               |                         |                                      |
| Explosion-proof grade:             |                         | Exd II CT6                                                                                          |                         |                                      |
| Gas Type                           | Detection Range         | Response Time                                                                                       | Resolution              | Alarm Values                         |
| O <sub>2</sub>                     | 0-25%vol/30%vol         | T90≤20s                                                                                             | 0.1%vol                 | 18.0%vol/23.0%vol                    |
| LEL/ch4                            | 0-100%LEL               | T90≤30s                                                                                             | 1%LEL                   | 25.0%LEL/50.0%LEL                    |
| CO                                 | 0-1000 ppm/2000ppm      | T90≤30s                                                                                             | 1 ppm                   | 50ppm/100ppm                         |
| H <sub>2</sub> S                   | 0-200 ppm               | T90≤30s                                                                                             | 0.1 ppm                 | 10ppm/20ppm                          |
| SO <sub>2</sub>                    | 0-200ppm                | T90≤30s                                                                                             | 0.1 ppm                 | 2 ppm /10 ppm                        |
| Cl <sub>2</sub>                    | 0-20 ppm<br>(0-5ppm)    | T90≤30s                                                                                             | 0.1ppm<br>(0.01ppm)     | 1 ppm /10 ppm                        |
| NH <sub>3</sub>                    | 0-100ppm/2000ppm        | T90≤50s                                                                                             | 1 ppm                   | 25 ppm /50 ppm                       |
| NO <sub>2</sub>                    | 0-200ppm                | T90≤25s                                                                                             | 0.1 ppm                 | 3 ppm /10 ppm                        |
| NO                                 | 0-1000 ppm              | T90≤50s                                                                                             | 1 ppm                   | 25 ppm /50 ppm                       |
| O <sub>3</sub>                     | 0-5ppm/20ppm            | T90≤30s                                                                                             | 0.1ppm                  | 0.3ppm/5ppm                          |
| PH <sub>3</sub>                    | 0-10ppm                 | T90≤60s                                                                                             | 0.1ppm                  | 0.3ppm/5ppm                          |
| H <sub>2</sub>                     | 0-2000ppm/4%vol         | T90≤50s                                                                                             | 1 ppm                   | 50ppm /100ppm                        |
| HF                                 | 0-10ppm                 | T90≤50s                                                                                             | 0.1ppm                  | 3ppm /10ppm                          |
| HCL                                | 0-30ppm/200ppm          | T90≤50s                                                                                             | 0.1 ppm                 | 5ppm /10ppm                          |
| HCN                                | 0-200ppm                | T90≤200s                                                                                            | 0.1ppm                  | 10 ppm /20 ppm                       |
| CH <sub>4</sub> (IR)               | 0-5.00%vol              | T90≤60s                                                                                             | 0.01%vol                | 1.00%vol/2.00%vol<br>1000ppm/1500ppm |
| VOCs                               | 0-1999ppm               | T90≤20s                                                                                             | 0.1ppm                  |                                      |
| CO <sub>2</sub> (IR)               | 0-5.00%vol<br>(0-1%vol) | T90≤60s                                                                                             | 0.01%vol<br>(0.001%vol) | 1.00%vol/2.00%vol<br>(customize)     |
| C <sub>3</sub> H <sub>8</sub> (IR) | 0-5.00%vol              | T90≤60s                                                                                             | 0.01%Vol                | 1.00%vol/2.00%vol                    |