



## GDWG-IV SF6 Gas Leakage Detector



### General Information

GDWG-IV SF6 Gas Leak Detector is infrared red type leak detector (NDIR technology). It is color OLED display and real-time shows SF6 concentration. It rapidly detects SF6 breaker, GIS leakage point and yearly leakage rate qualitatively and quantitatively. It's a good device suitable for power supply department, installation and overhaul unit, power test institute.

## **Application**

- High Voltage Switch Equipment
- Rotor vane of helicopter
- Gas transmission system
- To detect fire extinguisher
- Ventilation efficiency research of Buildings
- To detect danger

## **Advantages**

- No radiation.
- No need to replace high pressure high pure argon gas regularly.
- No need to approach high pressure gas.
- No need to replace sensors regularly, cost-effective.
- Stable performance, low maintenance cost. No need to make linear calibration every year.
- No affect by moisture and environment pollution.
- High sensitivity, up to 0.1ppmv (0.01ppmv for option.)
- When serious leakage or the SF6 gas concentration is up to 100%, it will not be polluted or damaged.

## **Features**

- 3.5inch OLED display.
- Built-in Lithium battery.
- User-defined alarm with sound and light.
- High sensitivity and good stability.
- Fast measurement speed, time is up to 3s.
- Temperature and pressure compensation.

- Only response for SF6 gas, not for other gas.
- Small size, easy to carry, suitable for on-site working.
- With gasbag non-slip straps, more comfortable to carry.
- Data storage up to 8000groups.
- Super-light aluminum with full shielding shell.
- External package uses engineering plastic, with waterproof, dust-proof.

### Specification

|                      |  |
|----------------------|--|
| Measuring principle  | Non-dispersive infrared sensor (NDIR)  |
| Resolution           | 0.1ppmv  |
| Measuring range      | 0-1000ppmv   |
| Accuracy             | ±2%FS (0-1000ppm). Even the measuring range is over 5000ppm, the instrument will not be damaged. |
| Repeat-ability error | ≤±1%   |
| Sensitivity          | 0.1ppmv (can be customized to 0.01ppm, for option)   |
| Response time        | ≤3s  |
| Recovery time        | ≤5s  |
| Stability            | ≤±20ppm, more than 1000hours   |
| Zero shift           | ≤±1%(F.S/year)   |
| Linear error         | ≤±1%   |

|                        |   |
|------------------------|---|
| Storage temperature    | -20~+60℃  |
| Operation temperature  | -20~+50℃  |
| Environment humidity   | 0-95%RH   |
| Operation humidity     | 0-95%(non-condensing)   |
| Sampling mode          | Built-in electromagnetic diaphragm pump, automatic slot-in type, flow up to 1L/min.   |
| Working voltage        | 220VAC±10%,50Hz Or Built-in Li-battery, continuous working 12hours after full charge. |
| Peak current           | <700mA  |
| Average power          | <2W.  |
| Operation air pressure | 800~1150hPa.  |
| Dimension              | 140*235*83mm  |
| Weight                 | About 1.5kg   |