



## GDWG SF6 Gas Leakage Detecting and Measuring System



### General Information

GDWG SF6 Gas Leak Detecting and Measuring Systems high precision and sensitivity detecting system, which use NDIR technology principle and pumping cycle principle. It is used to detect few SF6 gas in the pipe quantitatively and qualitatively. Based on the design principle of infrared (detecting SF6 gas wavelength 10.2-10.6 $\mu$ m), the SF6 detection will be accurate.

### Application

SF6 detection and analysis of pipe type

## SF6 detection and analysis of storage container

### Benefits

- 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.
- Detection sensitivity is up to 0.1ppmv and 0.05ppmv.
- When serious leakage or the SF6 gas concentration is up to 100%, it will not be polluted or damaged.

### Features

- 3.5inch OLED display.
- One screen display SF6 gas concentration, temperature and humidity, battery indication, time and pump status.
- Friendly human machine interface.
- Fast measurement speed, up to 10s to achieve stable data.
- Only response for SF6 gas, not for other gas.
- Make sure that no sensor poisoning occurs at any concentration.
- Small size, easy to carry, suitable for on-site working.
- Super-light aluminum with full shielding shell.
- Diaphragm pump suction sampling mode to ensure the tightness of the test gas path.

## Specification

Measuring principle	Non-dispersive infrared sensor (NDIR)
Measuring range (double path)	0-2000ppmv (resolution 0.1)  0-50ppmv (resolution 0.01)  limit range 0-100%
Resolution	0.1ppmv and 0.01ppmv
Accuracy:	$\pm 2\%$ F.S.
Repeatability error	$\leq \pm 1\%$
Response time	$\leq 10$ s
Recovery time	$\leq 15$ s
Long time stability(span)	$\leq \pm 20$ ppm, more than 1000hours
Long time stability(zero)	$\leq \pm 20$ ppm, more than 1000hours
Zero shift	$\leq \pm 1\%$ (F.S/year)
Linear error	$\leq \pm 1\%$
Storage temperature	-20 ~ +60°C

Operation temperature	-20 ~ +50°C
Working humidity	0-95% (no condensation)
Sampling mode	Diaphragm pump, flow up to 1L/min.
Working voltage	220VAC±10%, 50Hz or Battery F750/8.4V.
Air pressure	800-1150hPa

### Accessories

**Main Unit** 1 set

#### Detector case

Power cable 1pc

Sensor module 4pcs

Power charge cord 1pc

#### Pump case

Pump module 4pcs

Tube knife	2pcs
Fast connector hose	9 pairs
Sealant	1pc
Filter	6pcs

**Accessory case**

Channel cable	4pcs
Pump control cable	4pcs
Hose clamp	10pcs
PP pipe(9m)	1pc
User's Guide	1 copy
Factory Test Report	1 copy