

SF₆-IR-Leak Model GA15

WIKA Data Sheet SP 62.02

Applications

- Leak path identification in SF₆-filled equipment

Special Features

Infrared leak-detection technology offers many advantages:

- Detects small SF₆ gas concentrations down to 1 ppm_v
- Detects SF₆ only
 - Unaffected by other gases
 - Unaffected by moisture
 - Unaffected by wind
- Easy operation
- Fast response time



SF₆-IR-Leak Model GA15

Description

This instrument is used to assure leak-tightness of SF₆-filled compartments. It can be used to find leakages on aged equipment on-site or do quality inspection after manufacturing.

SF₆-IR-Leak is the perfect tool to identify the location and magnitude of leaks so that appropriate repairs can be made. It was specifically developed to be easy to use and quickly pinpoint even the smallest SF₆ leaks through the use of the physical working principle of infrared leak detection technology.

Functionality

The console is carried via a shoulder strap while the sensor gun is handheld. Both the sensor and handheld portions of the unit have a digital display to show the actual SF₆ level. A suction pump inside the console generates a flow from the tip of the handheld through the IR-sensor.

To find leaks the sensor is moved across the outside of the tank. As the SF₆ level increases, the beeping of the instrument becomes faster. In the tip a replaceable particle filter prevents the sensor from contamination. If the ambient SF₆ level is higher than 0 ppm_v the reading can manually be set to display zero.

Additional Features

Measurement Principle

Dual wavelength non-dispersive Infrared Spectrometer (NDIR)

Sensor Sensitivity

- 1 ppmv
- No cross sensitivities to other gases
- Moisture: unaffected from 0-100% relative humidity (non-condensating)

Range

0 ...2,000 ppmv

Accuracy

± 5 % of value at 0 ...100 ppmv
± 2 % of range at 100 ... 2,000 ppmv

Repeatability

< 0.3 %

Response Time T90

<2 sec

Unit

ppmv

Supply

- Lithium-Ion battery with 8 hours capacity,
- Rechargeable 100-265 V AC 50/60Hz

Alarm

Audio and visual. Factory audio settings are at 30, 100, and 1000 ppmv (other set points possible at the time of order)

Temperature

Storage: -10 to 60 °C
Operating: 0 to 45 °C

Dimensions

Console: 285 x 195 x 80 mm (11.2 x 7.7 x 3.2 in)
Hand-gun: 210 x 110 x 90 mm (8.3 x 4.3 x 3.5 in)

Weight

Console: 2.5 kg (5.5 lbs)
Hand-gun: 0.5 kg (1.1 lbs)

Calibration

Every 2 years

Modifications may take place and materials specified may be replaced by others without prior notice.
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.

