

High-precision measuring instrument for determining the concentration of SF₆ gas

Model GA65

WIKAI data sheet SP 62.13

SF₆ Tracer

Applications

- Leak test for the final inspection of SF₆ gas-filled equipment
- Monitoring of the concentration of SF₆ gas in the ambient air of enclosed spaces

Special features

- High-precision and reproducible measurements in the ppb range
- Fast response time
- Simple operation and long service intervals
- No consumables, e.g. flush gas, are required
- Expendable by multiplexer for up to 24 measuring points



Leak rate measuring instrument for SF₆ gas, model GA65

Description

The model GA65 measuring instrument has been specifically designed for measuring small concentrations of SF₆ gas. The quantitative measurement of SF₆ gas in the air is carried out reliably and reproducibly even at the smallest quantities.

The used technology is based on the photo-acoustic infrared spectroscopy. This physical and non-destructive measuring principle achieves a very high accuracy with a detection rate of 6 ppb_v.

Humidity is compensated and thus does not influence the measuring result.

Cyclic self tests guarantee the reliability and functionality of the instrument. It is recommended to recalibrate the instrument once a year.

The leak rate measuring instrument is easy to use and can be operated via control keys at the front of the housing or via an extensive PC software with a graphic user interface.

Both operating modes allow for the setting of the parameters (e.g. duration of the sampling), the starting of a measurement (manually or automatically), the display of the concentration of SF₆ gas in real time or the sending of the values to the downstream control software.

Specifications

Measuring principle

Photo-acoustic infrared spectroscopy

Detection limit

6 ppb_v or 6 x 10⁻⁹ ml/s
(at a flow rate of 60 ml/min)

Measuring range

6 ... 60,000 ppb_v

Resolution

1 ppb_v

Sensor characteristics

Temperature and pressure compensated
Humidity: Cross compensated up to 80 % and 31 °C

Reproducibility

1 %

Response time t₉₀

approx. 15 seconds

Permissible temperature ranges

Operation: 5 ... 40 °C
Storage: -25 ... +55 °C

Service interval

Once a year

Warning signals

2 settable alarm values
Audible and visible

Electrical output

2 relays (settable alarm values)

Data storage

Available (internal storage space)
Software and connection cable included in delivery

Voltage supply

AC 100 ... 240 V, 45 ... 67 Hz, 70 W

Interface

IEEE-488 and RS-232

Dimensions

W x H x D: 395 x 175 x 300 mm

Weight

9 kg

Ingress protection

IP 20

Ordering information

The description of the model is sufficient.

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