SF_6-Purity-Meter Model GA50

Applications

- Measurement of SF_6-gas percentage in SF_6-filled equipment

Special Features

- Fast test results, typically 2 minutes total
- Compact, lightweight
- Low maintenance
- Touch-screen interface
- Field proven design

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Description

The WIKA SF_6-Purity Meter is a cost effective way to determine if the SF_6 percentage in SF_6-filled equipment meets the requirements. Tolerable limits are suggested by the Cigré SF_6-Recycling Guide and the IEC 60 480 for used gas. Measuring the SF_6-Concentration the SF_6-Purity-Meter indirectly measures impurities of the tested SF_6-gas like air and CF_4.

Functionality

The SF_6-Purity-Meter is a stand-alone device designed to quickly and accurately measure the percentage of SF_6 present with the tested gas. Test gases also can be mixtures of SF_6 e.g. SF_6/N_2. Because the unit contains an automatic flow and pressure control module, the user does not need to be concerned with setting the correct flow rate or compensating for variations in equipment pressure.

The reading is temperature compensated and displayed in per cent (%) on the touch-screen display.
With an optional Recovery Kit GA45 connected to the outlet valve of the Purity-Meter the tested gas is stored for possible reuse after positive test result.

Additional Features

Measuring Principle
Based on the measurement of the different sound velocities in gases. Sound speed of air is about 330 m/s, while it is only about 130 m/s in pure SF_6.

Range
0 … 100 % SF_6

Accuracy
± 0.5 %

Display Resolution
0.1 %

Flow Rate
3 liters/hour

Approximate SF_6 Gas Consumption
Approx. 0.2 liters per measurement

Connection
Self-sealing quick connector

Pressure
0.5 - 35 bar (gaseous) with automatic flow rate regulation

Operation
Purge function to clean the instrument prior to a new test

Flow Rate
10 liters/hour

Supply
Lithium-Ion battery with 24 hour capacity
Rechargeable 100-265 AC V (50/60Hz)
Battery voltage displayed

Temperature
Storage: -10 °C to 60 °C
Operation: 0 °C to 50 °C

Dimensions
W x H x L: 280 x 140 x 300 mm (11.0 x 5.5 x 11.8 in)

Weight
Max. 6 kg (13.2 lbs)

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