

SF₆-Humiditor Model GA20

WIKA Data Sheet SP 62.03

Applications

- Measurement of the moisture (H₂O) content in SF₆-filled equipment

Special Features

- Fast test results, typically 5 minutes total
- Compact, lightweight
- Low maintenance
- Touch-screen interface
- Field Proven design

SF₆-Humiditor Model GA20

Description

During filling and maintenance of SF₆-filled compartments there is always a certain amount of moisture.

The WIKA SF₆-Humiditor is a cost effective way to determine the level of moisture (H₂O) in SF₆-filled equipment and hence secure the safe operation and prolonged lifetime of electrical equipment.

Functionality

The SF₆-Humiditor is a stand-alone device designed to quickly and accurately measure the amount of moisture present with the tested SF₆. 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. All readings are temperature compensated and displayed real-time on the touch-screen display, in parts per million volume (ppm_v), mass (ppm_w), and dew point in °C.

The SF₆-Humiditor has been designed, from the ground up, to be used on any SF₆-filled equipment. Unlike conventional multi-gas hygrometers, the SF₆-Humiditor uses a specifically calibrated exclusive polymer-based sensor, designed around the unique characteristics of the SF₆-Humiditor.

With an optional Recovery Kit GA45 connected to the outlet valve of the Humiditor the tested gas is stored for possible reuse after positive test result.

Additional Features

Measuring Time

Approx. 5 minutes

Range

+20 °C to -60 °C dew point

Accuracy

±2 °C at +20 ... -40 °C

±4 °C at <-40 °C

Resolution

1 °C

Units

in °C_{td}, ppm_v, and ppm_w

Related to ambient pressure and temperature compensated

Flow Rate

20 liters/hour

Approximate SF₆ Gas Consumption

Approx. 1.7 liters per measurement (at ambient pressure)

Pressure

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

Operation

Purge function with ambient air to reset the H₂O value to 0 after it has been detected.

Display

Touchpad-graphic display (240 x 128 pixel)

Power Supply

Lithium-Ion battery with minimum 24 hour capacity

Rechargeable 100-265 AC V (50/60 Hz)

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

Approx. 6 kg (13 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.



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