

# SF<sub>6</sub>-Hygrometer Model GA40

WIKA Data Sheet SP 62.07

## Applications

- High precision SF<sub>6</sub> moisture testing via chilled mirror dew point sensor

## Special Features

- High dew point accuracy ( $\pm 0.1$  °C)
- Fast test results, typically 10 minutes total
- Dynamic Contamination Correction "DCC"
- Touch screen interface
- USB connection for easy data transfer



SF<sub>6</sub>-Hygrometer Model GA40

## Description

When very high accuracy is needed for SF<sub>6</sub> moisture testing, the WIKA SF<sub>6</sub>-Hygrometer provides higher accuracy than the Humiditor.

## Functionality

The SF<sub>6</sub>-Hygrometer has been specifically designed to be used in SF<sub>6</sub>-applications. It is a stand-alone device that quickly, accurately, and automatically measures the dew point within a sample of SF<sub>6</sub> gas. No manual settings are needed and all readings are displayed in real-time on the touch-screen. Initially the system performs a self test to get the maximum cooling capacity. Measuring the equipment pressure, the instrument can display the pressurized dew point.

The measured data can be internally saved in order to download it later via USB-cable to PC. With an optional Recovery Kit GA45 connected to the outlet valve of the Hygrometer the tested gas is stored for possible reuse after positive test result.

## Additional Features

### Measuring Principle

Chilled mirror moisture sensor.

As the gas sample flows over the chilled mirror, dew droplets form on the mirror surface, and the reflected light is scattered. The sensor output decreases proportionally as the amount of reflected light decreases.

### Measuring Time

Approx. 10 minutes

### Range

+20 ... -63 °C

### Accuracy

±0.1 °C

### Resolution

0.1 °C

### Units

Dew point in °C , °C pr (pressurized), ppm<sub>v</sub>, ppm<sub>w</sub>,  
Pressure readings displayed in bar, kPa, or psi

### Flow rate

25 liters/hour

### Approximate SF<sub>6</sub> Gas Consumption

Approx. 4.2 liters per measurement (at ambient pressure)

### Pressure

0.5-14 bar (gaseous) with automatic flow rate regulation

### Operation

Purge function with ambient air to reset the H<sub>2</sub>O value to 0 after it has been detected.

### Display

Touchpad-graphic display (240 x 128 pixel)

### Power Supply

85 ... 265 AC V (47/63 Hz), 100 VA

### Temperature

Storage: -20 °C to 60 °C

Operation: -20 °C to 55 °C

### Dimensions

W x H x L: 410 x 190 x 460 mm (16.1 x 7.5 x 18.1 in)

### Weight

11 kg (24.3 lbs)

### Calibration

Not required

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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