Infrared leak detector with changed indication Model GA16

Applications

- Leak path identification in SF_6-filled equipment
- Tightness test

Special features

Infrared leak-detection technology offers many advantages:

- Indicates concentration in ppm_V, or leak rate in g/y, cc/s
- Detects small SF_6 gas concentrations down to 3 ppm_V
- Fast response time
- Detects SF_6 gas only
  - Unaffected by moisture
  - Unaffected by wind
- Easy operation

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Description

This instrument is used to assure leak-tightness of SF_6-filled compartments It can be used to find leakages on aged equipment on-site or do quality inspection after manufacturing.
SF_6-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 SF_6 leaks through the use of the physical working principle of infrared leak detection technology.

To find leaks the sensor is moved across the outside of the tank. As the SF_6 level increases, the beeping of the instrument becomes faster. In the tip a replaceable particle filter prevents the sensor from contamination. If the ambient SF_6 level is higher than 0 ppm_V the reading can manually be set to display zero.

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 SF_6 level. A suction pump inside the console generates a flow from the tip of the handheld through the IR-sensor.

Additional features

Measurement principle
Dual wavelength non-dispersive Infrared Spectrometer (NDIR)

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

Range
0 …2,000 ppm_V

Detectable leak rate (calculated)
3.43 g/year equiv. to 1.81 x 10^{-5} mbar*L/s (or atm*cc/s)

Detection limit
3 ppm_V

Accuracy
± 2 ppm_V < 50 ppm_V
± 5 ppm_V between 50 ... < 100 ppm_V
± 2 % max. of range between 100 ... < 2,000 ppm_V

Repeatability
< 0.3 %

Response Time T90
<1 sec

Unit
ppm_V, g/y, cc/s

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 ppm_V (other set points possible at the time of order)

Temperature
Storage: -10 ... 60 °C
Operating: 0 ... 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

Ordering information
Model

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