

# Equipment for Service and Maintenance of SF<sub>6</sub> -Switchgear and Circuit -Breaker

Certified acc. EC 305/2008

## P-32 SF<sub>6</sub> - leak detector



## P-32 SF<sub>6</sub>—leak detector, based on infrared technology

### Applications

Locating and quantifying leakages at SF<sub>6</sub> gas filled equipment  
Determination of leak rate for final inspection of SF<sub>6</sub> gas filled equipment.

### Special features

- Smallest concentrations of up to 0.01 ppm, can be detected
- Responds only to SF<sub>6</sub> gas and is therefore not sensitive to humidity and common volatile organic compounds (VOC)
- Easy to use
- Fast response time
- Calibration in the factory using certified test gases

### Description

The leak detector is used for the detection of the smallest SF<sub>6</sub> gas concentrations and is thus ideal for detecting the place and size of leakages.

### Infrared technology

The leak detector is based on the non-dispersive infrared technology (NDIR), offers fast response times and reliable measured values even in case of small leakages.

### Simply operation

This instrument is characterised by simple handling and good readability. Both the hand-held instrument and the console case are equipped with a digital indicator which is easy to read. This allows reading the current SF<sub>6</sub> gas values from any position.

The leakage detection is carried out using a hand-held instrument which has a movable gooseneck with gas inlet on the front side. An exchangeable filter prevents particles from being sucked in, thus protecting the infrared sensor.

A pump in the console case provides continuous flow of the sucked-in gas mixture through the sample chamber of the infrared sensor.

If the SF<sub>6</sub> gas is already present in low concentrations in the measurement environment, this offset can be target to 0 ppm, at the instrument. It makes the leakage detection easier, as every measured value greater than 0 ppmv represents leakage.

Depending on the version, the leak detector sends an acoustic alarm when a defined concentration is exceeded.



### Specifications

Measuring Principle	Infrared (NDIR)
Measuring Range	Standard type: 0-1500ppm (Optional 0-1500ppm)
Sensitivity	Standard type: 1ppm Highly sensitive type: 0-50ppm
Accuracy	Standard type: 1ppm Highly sensitive type: 0.1ppm
Sampling Mode	Pump
Operating Temperature	-20 ~ 60□
Power Supply	4.2V, internal battery power supply, 2200mAh
Response Time(T90)	1sec
Warm-up Time	100sec
Length of Probe Stylus	22cm
Lifespan	> 10 years