

SF₆ gas detectors

For monitoring the air of SF₆ indoor plant in permanent operation

3-026-R115

SF₆ Air Sensor

The device even detects smallest SF₆ concentrations and displays the current measuring values permanently. For the operating personnel it is absolutely necessary to know that no radioactive source is used. Therefore no special measures must be taken during operation.

The SF₆ Air Sensor guarantees a quick reaction time. Furthermore, there is no cross sensitivity to moisture and unaffected by background contamination and the measuring result remains constant. Parameters for warning messages and alarm tripping are freely configurable.



- Measuring range: 0 up to 1,500 ppm_v SF₆
- High longtime stability
- No maintenance and consumables are required
- Indication of the measuring value via LCD on the front of the device
- Air pressure compensated
- Analogous and serial interface

3-026-R115

SF₆ Air Sensor

Technical data:

Dimensions: W 80 mm, H 150 mm, D 60 mm
Weight: 250 g
Measuring principle: NDIR (double beam)
Measuring range: 0 up to 1,500 ppm _v SF ₆
Measuring accuracy: < ±2 % of measured value
Long-time stability / drift: < ±2 % of measured value / year
Warming time: < 2 min (run-up), 15 min. (full specification)
Response time: < 2 min
Indication: directly via LCD
Operating voltage: 24 V DC, 160 mA, 3.9 W
Ambient moisture: max. 95 % relative humidity, non condensing during operation
Protection class: IP 41
Recommended monitoring range per sensor: 250 m ²
Calibration / Maintenance: is not required due to the life time of sensor (about > 10 years)
Operating temperature: -10 to 40 °C

Standard equipment:

1 operating manual (multilingual) on CD-ROM

Optional accessories at an extra charge:

Additional operating manual on CD-ROM	6-0004-R213
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Packing:

Packing for 3-026-R115	3-948-R001
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Important note:

The device can only be used together with the SF₆ Network Monitor. It cannot be operated autonomously.

The device can also be connected with other devices to the SF₆ Network Monitor directly in order to build up monitoring points for SF₆ gas in the room via a network for monitoring.

SF₆ gas detectors

Central monitoring and indication of measuring values

3-026-R114

SF₆ Network Monitor

The SF₆ Network Monitor is the central control unit from up to five SF₆ Air Sensors to be connected. Warning and alarm thresholds can be set for each SF₆ Air Sensor.

The plug-and-play operating concept makes the handling very comfortable. Measuring values can be stored and called on the 5.7" coloured touch screen, if necessary.



- Different acoustic warning, alarm and malfunction signals
- Own names for each SF₆ Air Sensor connected
- Connection between SF₆ Air Sensors and Network Monitor via bus cable with plug connectors

3-026-R114

SF₆ Network Monitor

Technical data:

Dimensions: W 250 mm, H 218 mm, D 120 mm
Weight: 2.0 kg
Indication: coloured 14.5 cm (5.7") touch screen
Connection: max. 5 SF ₆ Air Sensors via bus system / 2 connecting lines
Max. length of power and bus cable: 150 m (per connecting line)
Operating voltage: 100 V - 240 V AC, 50 / 60 Hz, max. 30 VA
Ambient moisture: max. 95 % relative moisture, non condensing during operation
3 relay contacts max. charge: 2.5 A / 230 VAC
Protection class: IP 42
Sound pressure signal: > 75 dbA, 1m

Standard equipment:

1 operating manual (multilingual) on CD-ROM

Optional accessories at an extra charge:

External visual and acoustic alarm transmitter 230 V	05-1093-R001
External visual and acoustic alarm transmitter 115 V	05-1093-R003
2 m long power and bus cable	05-1602-R302
10 m long power and bus cable	05-1602-R310
25 m long power and bus cable	05-1602-R325
50 m long power and bus cable	05-1602-R350
Power and bus cable per meter	05-1602-R300
Connecting parts power and bus cable	3-026-89
Bus-Repeater up to 1,200 m bus length	3-026-85
Additional operating manual on CD-ROM	6-0004-R213

Packing:

Packing for 3-026-R114	3-948-R004
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Note:

For each SF₆ Air Sensor (3-026-R115) to be connected a power and bus cable is necessary.

The power and bus cable leads from the SF₆ Network Monitor to the first SF₆ Air Sensor and then to the next SF₆ Air Sensor until the last SF₆ Air Sensor is connected.