

# FIXED SF<sub>6</sub> LEAK DETECTION SYSTEM WITH CONTROL UNIT

LEK104-XX

## DESCRIPTION

- **Ideal for: real-time detection** of SF<sub>6</sub> gas levels in indoor equipment
- **To be used in combination: LEK104-02 network monitor** visualising the measurements detected by any number or combination of **sensors LEK104-03** (sensor with display) and/or **LEK104-04** (withouth display)
- **Configurable alarm thresholds and warning messages**
- **Visualisation** of the exact quantity of SF<sub>6</sub> dispersed into the atmosphere on the displays **in ppm or gr/y**
- **High sensitivity**



LEK 104-02



LEK 104-03



LEK 104-04



▶ **FIXED SF<sub>6</sub> LEAKS DETECTION SYSTEM  
WITH CONTROL UNIT**  
LEK104-XX

## LEK104-02 NETWORK MONITOR

### TECHNICAL SPECIFICATIONS

- ⚙️ DIMENSIONS: Length: 210 mm - Width: 346 mm - Height: 151 mm
- ⚙️ WEIGHT: 2,9 kg
- ⚙️ USED TECHNOLOGY: NDIR (non-dispersive infrared sensor), Dual Wavelength
- ⚙️ DIGITAL RESOLUTION: 1 ppm
- ⚙️ DISPLAY DIMENSIONS: 7"
- ⚙️ MEASURING RANGE: 0-1500 ppm SF<sub>6</sub>
- ⚙️ OPERATING TEMPERATURE: -20°C ÷ +40°C
- ⚙️ STORAGE TEMPERATURE: -20°C ÷ +60°C
- ⚙️ OPERATING HUMIDITY: 0 ÷ 95% rel.
- ⚙️ HEATING TIME: < 2 min
- ⚙️ RESPONSE TIME: approx. 60 s
- ⚙️ PROTECTION CLASS: IP 41
- ⚙️ INPUT VOLTAGE: 1-2-3x 230-400-500V AC, 50-60Hz
- ⚙️ OUTPUT SIGNAL: MODBUS TCP/IP RJ45 for SCADA application
- ⚙️ COLOURS: Yellow matt: RAL1016 Black matt: RAL9005
- ⚙️ ALARMS: Audible alarms
- ⚙️ OUTPUT: 8 output relay



▶ **FIXED SF<sub>6</sub> LEAKS DETECTION SYSTEM  
WITH CONTROL UNIT**  
LEK104-XX

## LEK104-03 SENSOR WITH DISPLAY

### TECHNICAL SPECIFICATIONS

- ⚙️ DIMENSIONS: Length: 188 mm - Width: 125 mm - Height: 75 mm
- ⚙️ WEIGHT: 0,6 kg
- ⚙️ USED TECHNOLOGY: NDIR (non-dispersive infrared sensor), Dual Wavelength
- ⚙️ DIGITAL RESOLUTION: 1 ppm
- ⚙️ DISPLAY DIMENSIONS: integrated 3" LCD display
- ⚙️ MEASURING RANGE: 0-1500 ppm SF<sub>6</sub>
- ⚙️ LIMIT OF DETECTION (3σ): ≤10 ppm
- ⚙️ REPEATABILITY: ≤ ±20 ppm
- ⚙️ ERROR OF LINEARITY: ≤ ±30 ppm
- ⚙️ OPERATING TEMPERATURE: -20°C ÷ +40°C
- ⚙️ STORAGE TEMPERATURE: -20°C ÷ +60°C
- ⚙️ OPERATING HUMIDITY: 0 ÷ 95% rel.
- ⚙️ HEATING TIME: < 2 min
- ⚙️ RESPONSE TIME: approx. 60 s
- ⚙️ PROTECTION CLASS: IP 41
- ⚙️ RECOMMENDED RANGE OF MONITORING: 250 m<sup>2</sup>
- ⚙️ INLET VOLTAGE: 24 VCC
- ⚙️ OUTPUT SIGNAL: MODBUS / RTU via RS485
- ⚙️ COLOURS: Yellow matt: RAL1016 Black matt: RAL9005



▶ **FIXED SF<sub>6</sub> LEAKS DETECTION SYSTEM  
WITH CONTROL UNIT**  
LEK104-XX

## LEK104-04 SENSOR

### TECHNICAL SPECIFICATIONS

- ⚙️ DIMENSIONS: Length: 98 mm - Width: 119 mm - Height: 75 mm
- ⚙️ WEIGHT: 0,3 kg
- ⚙️ USED TECHNOLOGY: NDIR (non-dispersive infrared sensor), Dual Wavelength
- ⚙️ DIGITAL RESOLUTION: 1 ppm
- ⚙️ MEASURING RANGE: 0-1500 ppm SF<sub>6</sub>
- ⚙️ LIMIT OF DETECTION (3σ): ≤10 ppm
- ⚙️ REPEATABILITY: ≤ ±20 ppm
- ⚙️ ERROR OF LINEARITY: ≤ ±30 ppm
- ⚙️ OPERATING TEMPERATURE: -20°C ÷ +40°C
- ⚙️ STORAGE TEMPERATURE: -20°C ÷ +60°C
- ⚙️ OPERATING HUMIDITY: 0 ÷ 95% rel.
- ⚙️ HEATING TIME: < 2 min
- ⚙️ RESPONSE TIME: approx. 60 s
- ⚙️ PROTECTION CLASS: IP 41
- ⚙️ RECOMMENDED RANGE OF MONITORING: 250 m<sup>2</sup>
- ⚙️ INLET VOLTAGE: 24 VCC
- ⚙️ OUTPUT SIGNAL: MODBUS / RTU via RS485
- ⚙️ COLOURS: Yellow matt: RAL1016 Black matt: RAL9005



▶ **FIXED SF<sub>6</sub> LEAKS DETECTION SYSTEM  
WITH CONTROL UNIT**  
LEK104-XX

**PROVIDED DOCUMENTS**

📄 Operating manual

**CERTIFICATES ISSUED**

📄 EC Certificate of Conformity

