



Geopal GP-SA-IR for SF6



Geopal GP-SA-IR



The Geopal GP-SA-IR can be used as a stand-alone detector or connected to monitor GJD-L3C, both designed for industry and marine.

The GP-SA-IR is fitted with an infrared sensor, using the technique of NDIR (Non Dispersive Infrared) Humidity and HC, as methane, toluene, benzene, ethene etc. has no effect on the SF6 sensor.

The detector uses an integrated microprocessor for continuously monitoring of the SF6 gas concentration.

Expected life time of the sensor is more than 10 years.

As an option the detector is available for, duct mounting and with a DIN plug for easy mounting / dismounting.

Easy to calibrate

The servicing of Geopal GP-SA-IR requires no special tools or equipment, only a test gas with the given gas concentration. The actual calibration can be carried out by one person in less than 10 minutes, using a simple push-button system with associated light indicators.

Simple installation

For the external wiring of the detector a three-conductor cable is normally all you need. Depending on how many relay functions are required, the number of conductors would be increased accordingly. SF6 gas is heavier than air so the detectors must be installed just above



SP14ATEX7159



DBI reg.Nr. 233.301



DIC444QMS

Technical Data

GP-SA-IR (please refer to separate data sheet for specifications of GJD-L3C)

| | |
|--------------------------|--|
| Supply voltage | 10 to 32 V AC/DC |
| Power consumption | 4 W max |
| Available gases | SF6 |
| Detection range | 0-1000 ppm, 0-2000 ppm |
| Response time T90 | < 30 seconds |
| Repeatability | +/- 1 % FS |
| Long-term stability | +/- 2% FS / 12 months |
| Accuracy | ±1% of FS range for readings below 25% of range ±2% of FS range for readings below 50% of range ±5% of FS range above 50% of range |
| Resolution | 0,2% of FS |
| Self-diagnostics | Continuous |
| Electrical output | 4-20mA / (2mA fault), 1-5V / (0,5V fault), 2-10V / (1V fault), 0-5V, 0-10V |
| Relay outputs | 2 relay outputs for alarm 1 and alarm 2 1 relay output for fault Signal contact 30V/1A |
| Material housing | Polycarbonate, black |
| IP rating | IP 65 DIN 60529 |
| Weight | 0,3 kg |
| Mechanical dimensions | 150 x 80 x 60 mm |
| Max operating conditions | Temperature -20 °C to +55 °C Humidity 0 %RH to 95 %RH not condensing Pressure 800-1200 mbar |
| Storage | Temperature -40 °C to +85 °C Humidity 0 %RH to 95 %RH |
| Approvals | CE compliant and accordance with: EMC directive, 2004/108/EC MED directive 961981 IACS E10: 2006 IEC 60 945:2002 and Corrigendum 1: 2008 IEC 60 092-504:2001-03 IEC 60 533:1999-11 |
| Safety | IEC 60 204-1: Electrical equipment of machines. IEC 61010-1: Safety requirements for electrical equipment for measurement, control and laboratory use. Low Voltage Directive 2006/95/EC (LVD) |
| Quality | ISO 9001:2008 |