

NDIR SENSORS
FOR SF₆ MEASUREMENT

SF₆ MEASUREMENT

NDIR-SENSORS – HIGH TECHNOLOGY FOR YOUR APPLICATION

SF₆ (sulphur hexafluoride) is a non-combustible and non-toxic gas. Throughout the world it is used primarily for insulating electrical high-voltage switching systems, transformers and cables. It is also used as an etching gas in semiconductor production and as a tracer gas in environmental simulations.

SF₆ is the strongest greenhouse gas and therefore the most harmful to the environment. Its global warming potential (GWP) is almost 24,000 times higher than that of CO₂. Use of the gas is therefore subject to very stringent environmental regulations. NDIR gas sensors of the EVO series from smartGAS support you in complying with these regulations.

The sensors measure either the purity and quality of the insulating gas in the systems or reliably detect minute SF₆ quantities in indoor air.

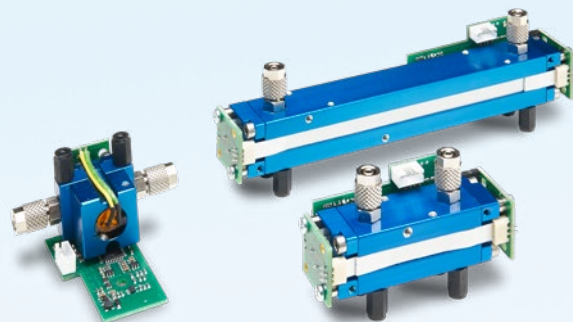
No matter what SF₆ concentration has to be measured under what conditions – smartGAS offers the suitable NDIR sensor.



DIFFUSION SENSORS FOR SF6



ANALYZING SENSORS FOR SF6



SF₆

DIFFUSION SENSORS

0 - 1000 ppm

0 - 1500 ppm

ANALYZING SENSORS

0 - 50 ppm

0 - 2000 ppm

0 - 5000 ppm

0 - 100 Vol.-%

YOUR BENEFITS

- Highly selectiv → low cross sensitivity to other gases
- Long lifetime → up to 10 years
- Fast response time → $t_{90} < 12s$
- Small drift over time → long calibration cycles
- Low cost of ownership → sustainable technology

IDEAL FOR

- Gas insulated switches (GIS)
- High power cables
- High power transformers
- Semiconductor production (as etching gas)

SMARTGAS – SMART SOLUTIONS FOR GAS MEASUREMENT



» *Leading gas measurement technology since 2005*

» *Specialized in NDIR gas sensing technology*

» *Solution provider for customer specific systems*



» *Production, calibration and R&D all located in Germany*

» *ISO 9001:2015 certified*



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