

COMPANY PROFILE

WHY IS SF6 CONTINUOUS MONITORING SO CRITICAL?

Reliability of modern automation process is a key point to guarantee on time delivery and quality assurance.

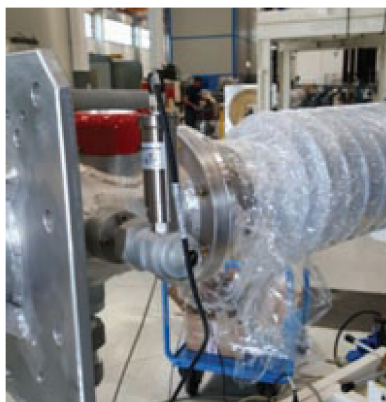
High & medium voltage switchgear are very reliable and requires minimal maintenance when operating within specified parameters. The use of SF6 as an arc quenching medium and a dielectric is extremely important to guarantee safe operations during the life of equipment. If moisture inside the gas exceeds critical limits, problems can occur. When SF6 and moisture are exposed to high amounts of heat, such as equipment operating under load or fault current, decomposition by-products can form causing damage to the switchgear and health risks to personnel. It also poses a high risk to the environment as SF6 itself is 22800 CO2 equivalent and by-products hazardous.

HOW?

Digitization of each peripherals allows to get an integrated net of parameters which can be analysed and elaborated to get a complete vision of instantaneous situation and predict with accuracy the future evolution of the system.

Transducers are the devices which can read the primary critical parameters and transmit all data to elaboration stations to guarantee the workflow in the rated and safety conditions.

To improve system reliability, plan maintenance scheduling and reduce workloads, real-



time monitoring and smart grid technology are becoming common rule for new automation process; data are transferred by quick link or bus from operation field to control rooms where prevention and online monitoring take place.

Electronic transducers like pressure sensors, temperature readers, moisture detectors are general purpose primary element which can be combined to create specific supervision for the various sectors, automation, pneumatics, food and beverage, machinery, naval chemical process controls and so on.

Infinitec Techsol Pvt Ltd has an experience of more than 10 years in the field of SF6, with ability to train and consult users of Assets with SF6. Our partner **Electronicsystems M.D** offers state-of-the-art electronics transducers and finds way to combine, adapt, and customize them for the specific sector. Electronicsystems M.D.'s multiple disciplinary know-how, 25 years' experience & skills in finding the best technical and economical solutions in most of the different field of operations puts it ahead of all in the industry.

With our Moisture Monitoring system, it is simple to monitor moisture levels, along with other critical parameters, and send an alarm if parameters do not meet specifications. It can be easily added to any switchgear and integrated with existing monitoring systems so all the potential risks and failures must be reduced as much as possible.

Electronic Dew Point Transducer continuously monitors moisture allowing user to ensure manufacturer's specified limits are not exceeded. Moisture calculation is based on measurement of physical data: relative humidity HR% and temperature. Pressure range -1 to 10 bar rel. Wide range measurement of dew point -60 to +20 deg C, patented chemically resistant, polymer sensor

SF6 Electronic Multi Parameter Transmitter monitors moisture of air or SF6 gas along with other parameters i.e., pressure, temperature, density, ppmv, relative humidity, dew point temperature. We have a range of moisture measurement 50 to 2000 ppmv with a patented polymer die chemically resistant depending on gas and exposition. Excellent long-term stability, dry contacts for low and alarm set points with analogue output 4 to 20 mA loop powered and digital Modbus RTU RS485 ■

For any expert advice, or technical assistance related to SF6

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