

## MIRROR-ANALYZER SF<sub>6</sub>

The SF<sub>6</sub> Mirror-Analyzer works by utilizing the dew point principle, the cooling of a volume of gas until condensation forms, to measure moisture content. As the gas sample passes over the chilled mirror surface, the moisture content of the gas is determined by comparing the temperature of the mirror to the condensation rate of the gas. The chilled mirror technology allows for highly accurate results over a wide range of dew points. The other parameters of SF<sub>6</sub> quality are determined by measuring the speed of sound (SF<sub>6</sub> volume percentage) and electrochemical reaction (SO<sub>2</sub> concentration).

- Intuitive 7" color touch panel interface
- Compact and lightweight design
- Inlet pressures up to 500 psig (eliminates need for external regulators)
- Zero Emission gas testing principle
- Field-replaceable sensors
- Data Storage for up to 500 tests
- Integrated calibration warning system
- USB- and LAN connection for data transfer to Excel spreadsheets
- Sensor controlled testing (reduces test durations)



### Technical data:

|                        |   |
|------------------------|---|
| Dimensions:            | 19" L x 24.6" W x 11.7" H ( 500 x 625 x 297 mm) |
| Weight:                | 60 lbs (27.5 kg)                                |
| Inlet pressure:        | 4 - 507 PSIG (pe 0.2 – 35 bar)                  |
| Operating temperature: | 14°F - 122°F (-10 °C to +40°C)                  |
| Operating voltage:     | 100 - 240 VAC 50/60 Hz                          |

### Sensor data:

|                     | Moisture  | Volume percentage                | SO <sub>2</sub>              |
|---------------------|---|----------------------------------|------------------------------|
| Measuring principle | Dew point mirror (physical measuring principle) | Velocity of sound                | Electrochemical reaction     |
| Measuring range     | -50 °C to +20 °C                                | 0 - 100.0 vol.-% SF <sub>6</sub> | 0 - 500 ppm <sub>v</sub>     |
| Measuring accuracy  | ±0.5 °C   | ±0.5 %                           | < 2 % of the measuring range |

### Purity Options:

An alternative purity sensor is available for SF<sub>6</sub> / CF<sub>4</sub> gas mixtures (measuring accuracy: ± 2.0 vol. -%)