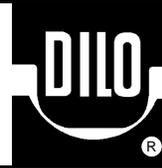


# SF<sub>6</sub> Volume Percentage Measuring Device

3-027-R002

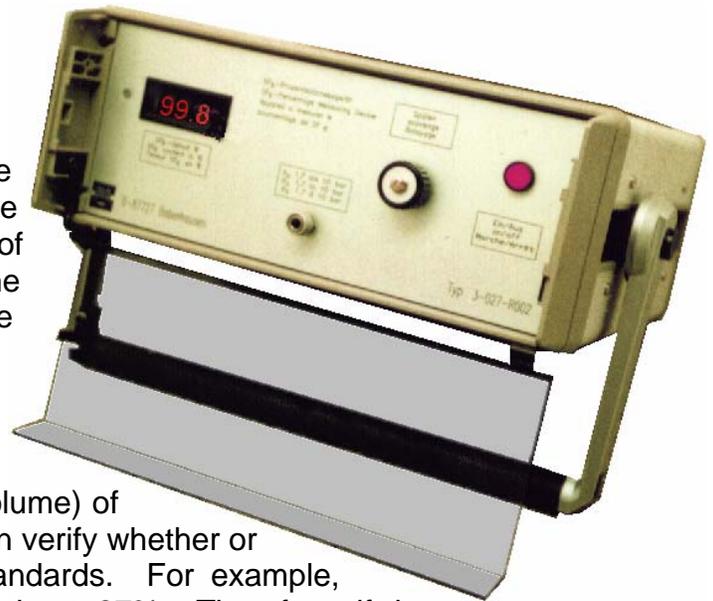


## Function

The device is easy to operate independent of the atmospheric pressure and its position. The measuring principle is based on the evaluation of velocity of sound. A microprocessor converts the measured values automatically to an SF<sub>6</sub> volume percentage; these values are indicated digitally.

## Description

This device is used to determine the purity (by volume) of SF<sub>6</sub>. Within a matter of seconds, an operator can verify whether or not the sampled gas meets minimum purity standards. For example, current CIGRE standards mandate a purity of at least 97%. Therefore, if the analysis determines the purity is above 97%, the gas quality is acceptable, and the SF<sub>6</sub> can be reused. The standard analyzer (R002) is calibrated for SF<sub>6</sub>/Nitrogen (or air) mixtures. *If the device is to be used on SF<sub>6</sub>/CF<sub>4</sub> mixtures, please order the 3-027-R003.*



## Technical data

|                               |   |
|-------------------------------|---|
| <b>Measuring media:</b>       | SF <sub>6</sub> /N <sub>2</sub> (air)                         |
| <b>Measuring range:</b>       | 0 - 100 volume-% SF <sub>6</sub>                              |
| <b>Measuring accuracy:</b>    | ± 1% by volume  |
| <b>Operating pressure:</b>    | 1.7 to 10 bar (10 to 145 PSIG)                                |
| <b>Measuring pressure:</b>    | Atmospheric   |
| <b>Operating temperature:</b> | -20°C to 40°C (-4°F up to +104°F) ambient air                 |
| <b>Response time:</b>         | Approx. 1 min. with a rinsed connecting hose.                 |
| <b>Flow rate:</b>             | Max. 1.2 g/min. (0.04 oz/min) at 100% of SF <sub>6</sub>      |
| <b>Electrical connection:</b> | 220V - 240V / 50-60 Hz reversible to 110V - 127V / 50-60 Hz = |
| <b>Dimensions:</b>            | 297 mm (11.7 inch) x 411 mm (16.2 inch) x 171 mm (6.7 inch)   |
| <b>Weight:</b>                | 8.5 kg (18.7 lbs)   |

- Carrying case
- Digital display
- 2.5m (8.2 ft) power cable
- 2m (6.6 ft) connecting hose
- DN20 and DN8 self-sealing couplings
- DILO-coupling DN 20

PLEASE NOTE: Upgrading the device to a 3-027-R003 allows for higher accuracy when working with SF<sub>6</sub> / CF<sub>4</sub> mixtures.