



DEVICES FOR THE DETERMINATION OF THE SF₆ GAS QUALITY

3-038R-R...

MultiAnalyser^{SF6}

With its innovative equipment and intuitive user interface, the MultiAnalyser^{SF6} meets the user's requirements and is ready for operation immediately after switching on. High-quality manufacture and ergonomic design guarantee the quality standards for a compact and maintenance-friendly measuring device with high measuring accuracy. This multi-functional measuring device allows the emission-free determination of up to six measuring parameters with only one sample.

Depending on the individually combinable unit configuration, the following values can be determined:

- » SF₆ volume percentage (%)
- » Moisture concentration
- » SO₂ concentration (ppm)
- » HF concentration (ppm)
- » H₂S concentration (ppm)
- » CO concentration (ppm)

Thanks to the easy-to-remove integrated battery, transport regulations are no longer a problem. Our field-replaceable sensors offer a great benefit as the device is ready for use immediately after the exchange without any down time.



Easy operation by intuitive menu navigation



If sensors need to be calibrated, they can be easily exchanged on site by the user. The device is immediately ready for use without loss of time based on the "Plug & Play" principle.

The MultiAnalyser^{SF6} allows different methods of operation for emission-free handling of the measured gas:

- » Internal storage of the measured gas (**max. inlet pressure 35 bar pe**) within the device, in an external cylinder or an external gas collecting bag. For continuous measurements without pumping the gas back it is recommended to collect the gas in an external gas collecting bag.
- » Pumping the gas back into an external cylinder, vessel or gas compartment (**up to 10 bar pe**).
- » The external bag can be emptied by using the MultiAnalyser^{SF6}, a DILLO service cart or compressor unit.
- No gas emissions
- Modular interchangeability of the sensors
- Easy operation and intuitive menu navigation via high quality 7" colour touch panel
- Storage of up to 500 measurement results with name, date and time
- Remote control and data download via mobile devices and WLAN connection
- Battery operated and / or external power supply
- Adjustable user languages: DE, EN, FR, ES, IT, PT, CZ, PL, CN, JPN, RUS
- Compact trolley case, easy to transport



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Technical data:

Dimensions: Depth 406 mm, Width 538 mm, Height 269 mm
Weight: 24 kg
Inlet pressure: p _e 0,2 - 35 bar
Operating temperature: -10 °C to +50 °C
Ambient moisture: max. 90 % relative moisture, non condensing during operation
Operating voltage: 85-264 VAC, 47-63 Hz
Number of measured values to be stored: max. 500
Interface: USB/LAN
Measuring time: variably calculated by the system, max. 9 minutes
Flow rate: 20 L/h (SF ₆)
Indication of moisture concentration in dew point °C or °F, referred to atmospheric or inlet pressure, reversible to indication in ppm _v , ppm _w
Indication of inlet pressure in bar, psi, MPa and kPa (in p _a or p _e)

Standard equipment:

Transport case, 6 m long connecting hose with DN8 and DN20 DILLO couplings, 2 m long connecting cable
USB stick with data file for evaluation and reading out of measured data
Operating manual

NOTE: Precise and correct results for subsequent measurements can be guaranteed by automatically purging the measuring hose prior to each measurement.



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Sensor data:						
	Vol.-%	Moisture	SO ₂	Option: HF	Option: H ₂ S	Option: CO
Measuring principle	Velocity of sound	Electronic dew point measurement (capacitive)	Electrochemical reaction	Electrochemical reaction	Electrochemical reaction	Electrochemical reaction
Measuring range	0 – 100 vol.-%	-60 to +20 °C	0 – 20 ppm 0 – 100 ppm 0 – 500 ppm	0 – 10 ppm	0 – 100 ppm	0 – 500 ppm
Measuring accuracy	±0,5 vol.-%	±2 °C (to > -40 °C) ±3 °C (to < -40 °C)	< ±2 % of measuring range	< ±10 % of measuring range	< ±2 % of measuring range	< ±2 % of measuring range
Adjustable limit value	0 – 100 vol.-%	-60 bis +20 °C	0 – 20 ppm 0 – 100 ppm 0 – 500 ppm	0 – 10 ppm	0 – 100 ppm	0 – 500 ppm
Recommended calibration interval	2 years	2 years	2 years (lifetime)	2 years (lifetime)	2 years (lifetime)	2 years (lifetime)

Ordering data of the MultiAnalyser^{SF6}:

Single measuring device for percentage measurement 0 - 100 vol.-%	R101
Single measuring device for moisture measurement -60 °C to +20 °C dew point temperature	R102
Two-in one measuring device for percentage and moisture measurement	R201
Three-in-one measuring device for measurement of percentage, moisture and SO ₂ with 0 - 20 ppm	R301
Three-in-one measuring device for measurement of percentage, moisture and SO ₂ with 0 - 100 ppm	R302
Three-in-one measuring device for measurement of percentage, moisture and SO ₂ with 0 - 500 ppm	R303
Four-in one measuring device for measurement of percentage, moisture and SO ₂ with 0 - 20 ppm and HF with 0 - 10 ppm	R401
Four-in one measuring device for measurement of percentage, moisture and SO ₂ with 0 - 100 ppm and HF with 0 - 10 ppm	R402
Four-in one measuring device for measurement of percentage, moisture and SO ₂ with 0 - 500 ppm and HF with 0 - 10 ppm	R403
Six-in one measuring device for measurement of percentage, moisture and SO ₂ with 0 - 100 ppm, HF with 0 - 10 ppm, H ₂ S with 0 - 100 ppm and CO with 0 - 500 ppm	R602

Options (on request): All devices with percentage measuring system are additionally available for SF₆ concentrations in SF₆/CF₄ gas mixtures (measuring accuracy: ±2.0 vol. -%). Thus, it is possible to switch over between the SF₆/N₂ and SF₆/CF₄ measurement.

Optional accessories at an extra charge:

External compressor for increase of pressure for application of the MultiAnalyser ^{SF6} with an inlet pressure of < 0.2 bar p _e	3-826-R003
Gas collecting bag, volume 52L	B151R95
Adapter case for measuring devices	Z340R42
6 m long connecting hose with self-closing couplings (e.g. as extension hose)	3-531-R060
Additional operating manual	6-0004-R213
Remote control router kit	K176R21
Remote control router kit with extended functions	On request

Packing:

Packing for 3-038R-R...	3-775-R104
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