ENERGY_SUPPORT

Mobil GC 2

Automatic DGA analysis, with Vacuumdegassing

Mobile gas chromatograph with fully automatic measurement process
according to ASTM D3612 and IEC 60567

- Portable gas-in-oil analysis for condition assessment of insulating oils on site or in the laboratory
- Fully automatic measurement process with vacuum extraction
- Testing of dissolved gases according to ASTM D3612 and IEC 60567
- High sensitivity in the analysis of 11 gases
- Direct analysis of Buchholz gases
- Internal gas supply for 40 hours of continuous operation
- Calibration with one calibration gas – suitable for all insulating oils
- Automatic evaluation of analysis results with the Expertsystem software, according to Rogers IEC or Duval
- Customised evaluation options

Ageing processes such as oxidation or thermal degradation affect insulating oil to varying degrees, but always lead to a deterioration in their chemical and dielectric properties.

With the MobilGC2, you can respond to faults at an early stage and reduce unscheduled maintenance work.

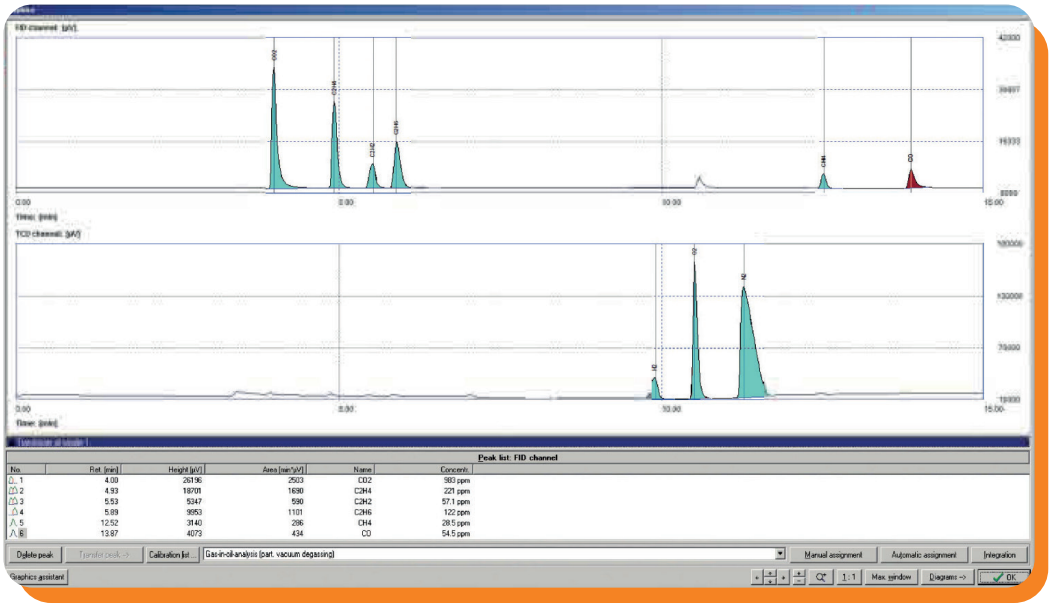
Once the oil sample has been drawn without contamination, e.g. using our OSM2 Pro, attach the syringe to the MobilGC2 port and start the measurement.

The display will guide you through the process step by step.

After automatic degassing, the gas sample is transferred to the MobilGC2 and you will receive your measurement result.

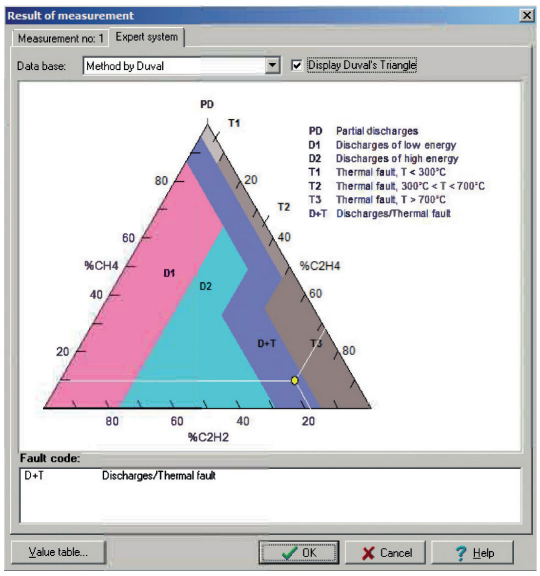
During degassing, the total gas content is determined, which provides you with information about the gas saturation in your transformer.

This provides you with valuable information about the condition of your transformer.



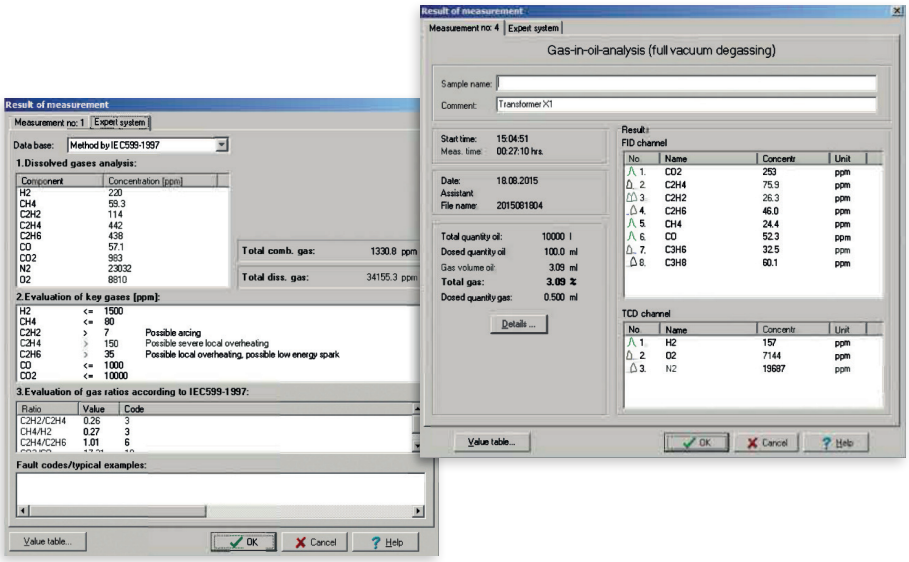
Detection limits:

H_2	1 ppm	C_2H_6	0,1 ppm
CO	0,2 ppm	C_3H_6	0,5 ppm
CO_2	0,2 ppm	C_3H_8	0,5 ppm
CH_4	0,1 ppm	O_2	30 ppm
C_2H_2	0,1 ppm	N_2	30 ppm
C_2H_4	0,1 ppm		



The MobilGC2 is supplied with the Expertsystem software. This allows you to use various diagnostic methods.

However, you can also design your own method and define individual gas concentrations as the basis for condition assessment.



Transformers need low-maintenance but they are not maintenance-free. When analysing gas in oil, it is important to obtain as much information as possible about the condition of the insulating oil; that means more gases we detect, the more information we obtain.

With the MobilGC2, we analyse the total gas content and 11 fault gases, according ASTM D3612 and IEC60567

Technical data:

Measurement technology:	**Gas in oil analysis with vacuum extraction and GC**
Measuring range:	**Gas in oil – 0.1 -100.00ppm**
Resolution:	**0,1 ppm**
Calibration:	**with traceable calibration gas for all new and aged insulating oils**
Sampling:	**10 ml glass syringe, gas-tight**
Power supply:	**100 – 240 VAC 50/60Hz**
Operating temperature:	**0–50 °C, 5–95% relative humidity, non-condensing**
Dimensions:	**480 x 500 x 310 mm**
Weight:	**19 kg**
Housing:	**Pelicase**

Internal gas supply with argon and hydrogen

Scope of delivery

Software expert system
Degassing flange
Calibration object
Glass syringes
Filling system for internal gas supply
Calibration gas for approx. 250 calibrations

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