

- » State of the Art Technology Portable Gas Chromatograph
- » Available in different versions
- » Fully automatic measurement procedure
- » Fully compliant with ASTM D3612 and IEC 60567
- » Automatic sample injection
- » High Sensitivity through Vacuum Degassing
- » High Selectivity through Gas Chromatography
- » Highly sensitive detection of up to 11 gases
- » Suitable for Acceptance- Service- and Routine tests
- » Ideal for on-site measurements and also for laboratories
- » Direct analysis of Buchholz gases
- » Rugged case-waterproof for extreme environmental conditions
- » Expert System for quick and easy conclusions
 Evaluation according to: IEC 60599, Roger ratios, Duval etc.

The MOBILE GC's unique characteristic is its ability to function both under on-site conditions and also in the laboratory. The Dissolved Gas Analysis allows early recognition of transformer defects and possible failures.

By observing the manufacturers' established service intervals and through use of the MOBILE GC unnecessary and substantial breakdown costs are minimized dramatically.

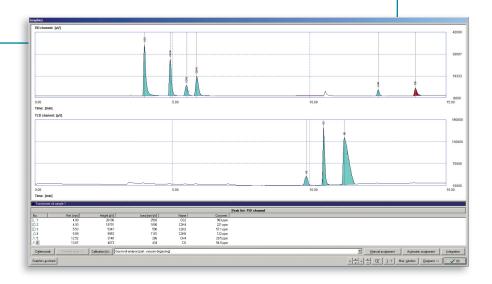


Integrated Microprocessor-Controlled Degassing Procedure

After fixing a syringe with 10ml oil the degassing procedure is started automatically. The user interface provides step-by-step guidance. After degassing the oil, the gas sample is automatically injected into the sample loop and the gas chromatographic analysis is started. During the degassing procedure the total gas content is measured.



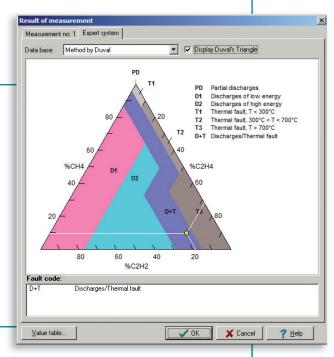






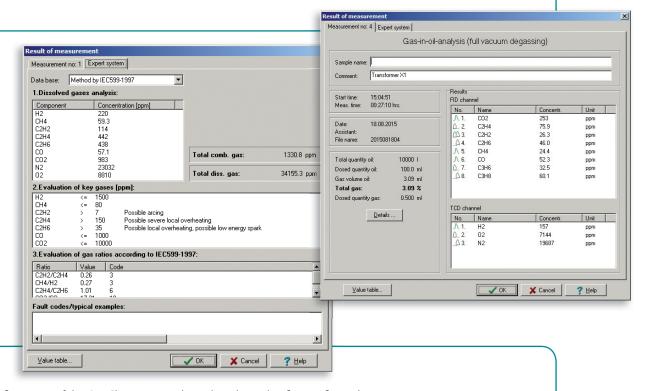
Detection ranges (Accuracy):

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 MOBILE GC is equipped with an Expert System Software. Automatic fault diagnosis of the sampled oil based on the various concentrations, reference values, and ratios of certain gases is performed.

You no longer need to be an expert to analyse the gas content in oil.



The configuration of the Gas Chromatograph can be adjusted to fit specific applications.

The instrument can also be used in laboratories or on site.



Technical Details

Measurement technology: Full gas chromatographic analysis using TCD and FID detector and methanizer

Gas in oil measurement range: 0,1 – 100.000ppm

Applicable for new and used oils

Resolution: 0,1ppm

Calibration: With traceable calibration gas or gas in oil standard

Sampling: 10 ml oil sample

Gas tight glass syringe to ensure no gas loss or contamination with ambient air

Power supply:100-240VAC, 50/60HzGas requirements:99,999% purity Argon

99,999% purity Hydrogen

Operating temperature: $0 - 50^{\circ}\text{C} 5 - 95\% \text{ RH non-condensing}$

Width/Height/Depth: 460 x 500 x 310mm

Weight: 19 Kg

Housing: Pelicase black, waterproof, IP 67

Scope of delivery: Connecting cable computer - Mobil GC2 (RS232)

USB adapter for serial interface Degassing flange (brass) - vial (40ml)

Calibration Objekt

Stir bar

Glass syringe (2ml) for calibration gas

Filling system for Argon Bottel Connecter for Hydrogen

Sealing plug 1/8" Filter Cartridge

Flexible Tube for Oil Sampling

Cleaning Paper Ignition plug

Basic instrument

Accessory Case Mains Cable, communication cable, USB-Stick with software and Expert System,

calibration gas, 2 x 10ml glass syringe incl. 2-way valves, glass tube for FID,

instruction manual

Consumables: Calibration gas traceable

Glass syringe 10ml with 2-way valve

2-way valves





ENERGY SUPPORT GmbH

Sperberweg 47 D-41468 Neuss

T +49 - 2131 / 403 96 07 F +49 - 2131 / 403 96 08 info@energy-support.de www.energy-support.de