

# Mobile Gas Chromatograph for Dissolved gas Analysis Version 1A

## Scope of delivery:

- basic device with Windows control software for evaluating documentation and customer-specific settings, with Expert System for automatic Faultdiagnosis in Insulating Oils
- thermal-conductivity detector (TCD) and flame ionization detector (FID) connected in series, Methanizer
- furnace cassette with separating column and temperature-programmed column heating system
- Automatic sample loop for easy injection of gas sample
- internal carrier gas supply (nitrogen/argon for approximately 80 operating hours)
- internal burning gas supply (hydrogen for approximately 80 operating hours)
- degassing is carried out by means of a gas extraction syringe according to DIN/IEC 60567/567 ; the released gas is transferred to the Injector of the GC with an injection syringe



## For detection of 9 fault gases:

- H<sub>2</sub>, CH<sub>4</sub>, CO, CO<sub>2</sub>, C<sub>2</sub>H<sub>2</sub>, C<sub>2</sub>H<sub>4</sub>, C<sub>2</sub>H<sub>6</sub>, C<sub>3</sub>H<sub>6</sub>, C<sub>3</sub>H<sub>8</sub>
- Detection ranges: H<sub>2</sub> 1 ppm
- CO , CO<sub>2</sub>, CH<sub>4</sub> 0,2 ppm
- C<sub>2</sub>H<sub>2</sub>, C<sub>2</sub>H<sub>4</sub>, C<sub>2</sub>H<sub>6</sub> 0,1 ppm
- C<sub>3</sub>H<sub>6</sub>, C<sub>3</sub>H<sub>8</sub> 0,5 ppm

## The scope of delivery includes the following components:

- Calibration gas Peakmaster
- 1 gas extraction syringe
- 1 seal assembly for the gas extraction syringe
- 2 three-way valves
- 1 two-way valve
- 2 connectors
- 1 tube connecting oil reservoir and syringe
- 1 injection syringe
- 1 Set Septen assembly (including 5 Septen)
- 1 unit of leakage detector gas
- 1 package of cleaning pads

## following options are available:

Option: laptop as control computer:  
Pentium 133 MMX  
1.4 GB hard disk/16 MB RAM  
12.1 inch DSTN colour LCD display with touch pad  
The customer has to provide for Win 95 and Windows for Workgroups

Option: connection to external gas supply nitrogen :  
cylinder adapter, inert pressure pipe  
needle valve for setting cylinder pressure  
security pressure relief valve, filter  
high-quality steel connector to the mobile GC

Option: connection to external gas supply hydrogen:  
cylinder adapter, inert pressure pipe  
needle valve for setting cylinder pressure  
security pressure relief valve, filter  
high-quality steel connector to the mobile GC

Option: nitrogen supply, cylinder with 2 litres, 200 bar  
for approximately 1,200 operating hours

Option: hydrogen supply, cylinder with 2 litres, 200 bar  
for approximately 1,200 operating hours

Option: Accessory case for mobile GC

- 1 gas extraction syringe
- 1 seal assembly for the gas extraction syringe
- 2 three-way valves
- 1 two-way valve
- 2 connectors
- 1 tube connecting oil reservoir and syringe
- 1 injection syringe
- 1 unit of calibration gas Peakmaster
- 2 injection syringes with cannulas
- 1 Set Septen assembly (including 5 Septen)
- 1 unit of leakage detector gas
- 1 package of cleaning pads



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