

# Dedicated Gas Chromatograph



## Features :

Detectors available are:-

- FID, TCD, Methanator, FPD, PID, HFDD etc.
- Flame Ionisation Detector (FID)  
Sensitivity - Less than 1 ppm of Hydrocarbon
- Thermal Conductivity Detector (TCD)  
Sensitivity - Less than 0.01 % of Hydrogen
- High Frequency Discharge Detector (HFDD)  
Sensitivity - for trace impurities at 1 PPb of O<sub>2</sub>/N<sub>2</sub>/CO/CO<sub>2</sub> etc. in Ar, He, N<sub>2</sub> (UHP gases).

## Accessories :

- This can be supplied with auto gas sampling valve, back flush valve, heart cut valve. Head space sampler, Pyrolyser for polymer analysis.
- Special imported Gas Chromatograph also available for PPb level trace analysis from 'Orthodyne' - Belgium.

## Our other products are :

- Gas Chromatography & Accessories • Chromatography Software • Flue Gas Analyser\*
- Moisture Meter for Pure gases and Air Dryers • Gas Analyser/ On-line Process Analysers • Oxygen Meter
- Continuous Emission Monitoring System • U.H.R Gas Analysers for On-line, Portable, Laboratory applications
- Binary Gas Analyser / Gas Purity Analyser • And others as required.

*For details, please contact:*



## HEMAKI LAB-SERVICES PVT. LTD.

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# Binary Gas Analyser / Gas Purity Analyser

**TCD Binary Gas Analyser Model BG 211.**

## Features :

- Four Filament TCD (imported) Diffusion type.
- Change over valve for sample and reference.
- Two needle valves and rota meter for Gas Flow Controls.

## Optional :

- \* 4 to 20mA out put.
- \* Alarm setting-single/dual
- \* Cabinet - table mount or panel mount or wall mount
- \* Detector with flow through design is also available for fast response.

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## Applications:

- Binary Gas Analyser for on-line indication for gas mixtures like Ar/N<sub>2</sub>, Ar/He, Ar/H<sub>2</sub>, Ar/CO<sub>2</sub> and any other combination of two different gases.
- On-line Gas purity / total impurity analyser with resolution 0.1% (for Hydrogen & Helium 0.01%)

## Electronic Control Panel:

- Digital Display 3 1/2 LED with 0.1% resolution.
- Zero & Span (or two points) control for calibration to get direct read out of % selection
- Switch for % or mA current indication.
- Filament temp control with overload protection saves filaments.
- Current is adjusted automatically as per composition gas.
- Recorder out put-mV as standard



# Gas Chromatograph Model Mak 911M. EGC - Educational



## MICROPROCESSOR GAS CHROMATOGRAPH MODEL MAK ANALYTICA 911M EGC - EDUCATIONAL

### BASIC UNIT- Micro Processor based

Main frame. Column Oven, Single Injector Port. Microprocessor temperature controller for Injector, Detector, Oven & auxiliary. Six step temperature Programmer for oven, method storage capacity - more than 10 method files (Protected against power failure) Dust proof membrane key-board and Many other facilities. Pneumatic control including pressure regulators with gauges for gases. Carrier control by fine needle valve, flow controllers with upstream pressure gauges for columns.

### Basic Essential Kit:

- 1) Spare fittings
- 2) 1/8" standard s.s. tube
- 3) Tool Set
- 4) 10 micro litre syringe for Liquids, gas tight syringe for gases.
- 5) Septa (pack of 20 Nos)
- 6) Soap Bubble flow meter
- 7) Instruction Manual
- 8) SE 30 2 mtrs test column for FID (For solvents and hydrocarbons)
- 9) M.S. 5A, 2 mtrs test column for TCD (For non corrosive gases and solvents)

### DETECTORS

#### 1) FLAME IONISATION DETECTOR WITH AMPLIFIER

High sensitivity to detect solvent & Hydrocarbons <0.01 %

Operating Temperature : Ambient to 400°C

Jet : Quartz

#### 2) THERMAL CONDUCTIVITY DETECTOR

with Hydrogen carrier control for Gas Analysis < 0.1 %

### SOFTWARE

Integrator software with ADC hardware card. To be mounted on PC with Printer.

### ACCESSORIES

- 1) Cylinder Regulator / gas cylinders - H<sub>2</sub> for TCD and H<sub>2</sub>, N<sub>2</sub> and zero air for FID
- 2) Servo Controlled Voltage Stabilizer  
Ext. Range, Model LLSTD, Capacity 3 KVA with surge suppressor  
Complete with input cable & plug.
- 3) PC with printer for operation of Integrator software..

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