



# **GAS CHROMATOGRAPHY MASS SPECTROMETRY**

**GC-MS-879**

Gas chromatography mass spectrometry GC-MS is a high precision Gas chromatograph mass spectrometer with pre-filter mass analyzer and electron multiplier ensuring high sensitivity. Desorption for solids is performed at controlled temperature between 100 ~ 350 °C with a flow rate of 1 to 1.5 ml / min. With seven stage temperature programming and an interface temperature of 450 °C the analysis is sensitive and specific.

### Features:

- Column flow rate is 1 ~ 1.5 ml / min
- Maximum flow rate is 10 ml / min
- Simultaneous analysis with different components increasing productivity
- Electronic flow control system
- Mass analyzer with pre-filter reducing quadruple filtration
- Turbo molecular pump vacuum system for stability and reliability
- Software controlled auto sampler, gas chromatograph and mass spectrometer
- Screens and quantifies more than 1000 compounds in a single run

### Applications:

Used in identifying and quantifying volatile organic compounds in mixtures, testing residual solvents, identification of trace impurities in liquids or gases, evaluating extracts from plastics, contaminants on semiconductor wafers or other technology products.

### Gas Chromatography Specifications:

Model No.	GC-87
Flow rate	1 ~ 1.5 ml / min
Maximum flow rate	10 ml / min
Inlet temperature	450 °C
Pressure range	0 ~ 100 psi
Heating rate	Upto 120 °C / min

Room temperature	4 °C ~ 450 °C
Pressure control mode	Electronic pressure control ( Supports CV and CC )
Split mode	Split / split less
Split ratio	1000 : 1
Temperature programming	7 stages / 8 platforms
Auto sampler	Optional

### Mass Spectrometry Specifications:

Model No.	MS-89
Mass range	1.5 ~ 1000 amu
Ion – source temperature	100 °C ~ 350 °C
GC-MS interface temperature	450 °C
Scan rate	Upto 10000 amu/s
Stability	± 0.10 amu / 48 hrs.
Filament emission current	0 ~ 350 µA
EI source ionization energy	5 eV ~ 250 eV
Resolution	Unit resolution
Detector	High energy dynode electron multiplier
Sensitivity	Full scan ( S / N is ≥ 30 : 1 )
Vacuum	Turbo molecular pump ( 67 L/s )