

GAS CHROMATOGRAPHIC ANALYZER

The Gas Chromatographic Analyzer is an analytical tool principally developed for the determination of oxygen, nitrogen, carbon dioxide, and the hydrocarbons C1 and C12.

Three main columns are used to accomplish the single-channel analysis of natural gas:

- a molecular sieve column for oxygen and nitrogen separation
- a Hayesep P column for the separation of methane till hydrogensulfide
- a capillary column for the separation of C1-C12

Natural gas analysis commonly involves the quantitation of components up to C5 while C6 and heavier hydrocarbon are combined and measured as a single peak (C6+).



Specifications

COLUMN SPECIFICATION

Column type:	WCOT Fused Silica
Stationary phase:	CP-Sil 5 CB
Column Length:	60
Inside diameter:	0.29 mm
Out side diameter:	0.39 mm
Film thickness:	1.00 μ m

Max Allowable Operation Temperature

Isothermal:	325 $^{\circ}$ C
Programmed:	350 $^{\circ}$ C
Bleed limit at 325 $^{\circ}$C:	15 pA