

System Gas Chromatograph

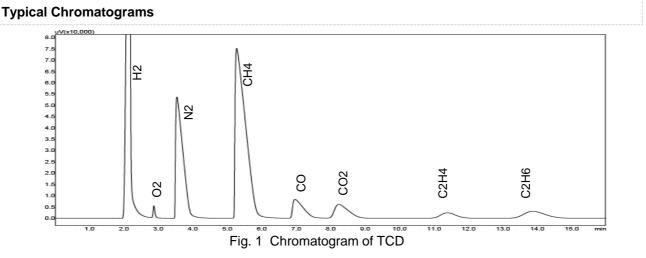
Town Gas Analysis Nexis GC-2030TGA3 GC-2014TGA3

The system enables quantitative and qualitative analysis of He, H2, O2, N2, CO, CO2 and C1 to C3 in municipal gas. A fixed volume of gaseous sample is loaded into the GC and individual components of the sample are identified using two thermal conductivity detectors (TCD). The system is equipped with three automated valves. LabSolutions GC workstation system handles all aspects of GC control, automation, and data handling.

System Configuration: Two valves / four packed columns with TCD	Concentration Range:			
	No.	Name of Compound	Concentration Range	
			Low Conc.	High Conc.
detector Sample Information: H ₂ , O ₂ , N ₂ , CO, CO ₂ , C ₁ , C ₂ , C ₃	1	He	0.01%	10%
	2	H2	0.01%	10%
	3	O2	0.1%	50%
	4	N2	0.1%	50%
	5	CO	0.1%	10%
	6	CH4	0.1%	90%
	7	CO2	0.1%	10%
	8	C2H2	0.1%	40%
	9	C2H4	0.1%	40%
	10	C2H6	0.1%	40%

System Features

- Single channel with packed columns
- · About 20 minutes analysis time with Ar carrier gas
- Calorific value software is available
- Good separation between CH₄ and CO



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