

Application Data Sheet

No.64

System Gas Chromatograph

Trace O₂ and N₂ Analysis System Nexis GC-2030TNO GC-2014TNO

The system enables a quantitative and qualitative analysis of H₂. A total of 1 valve and 2 columns are applied in this GC system. Helium is used as carrier gas. Sample is introduced into one sample loop for determination. Using a pre-column, C2-C3 components are back-flushed. The valve timing allows O₂ and N₂ to introduce to molecular sieve column for separation and then detected by TCD. Analysis time is approximately 4 minutes. LabSolution workstation system handles all aspects of GC control, automation, and data handling.

Analyzer Information

System Configuration:

One valve / Two packed columns with one TCD detector

Sample Information:

O₂, N₂

Methods met:

ASTM-D2504

Concentration Range:

No.	Name of Compound	Concentration Range		Detector
		Low Conc.	High Conc.	
1	O ₂	5ppm	500ppm	TCD-1
2	N ₂	5ppm	500ppm	TCD-1

Detection limits may vary depending on the sample. Please contact us for more consultation.

System Features

- 5 minutes analysis for O₂ and N₂ analysis can be carried out
- TCD channel
- Good repeatability

Typical Chromatograms

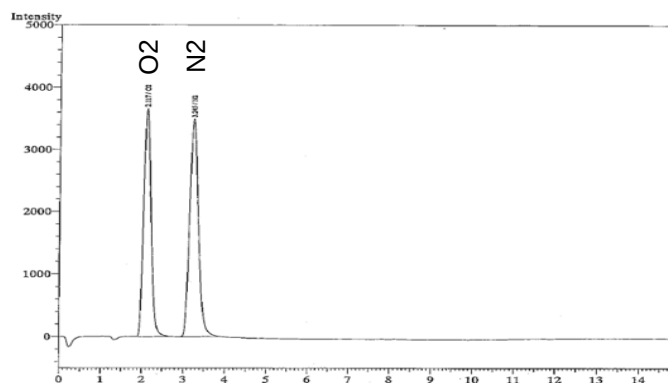


Fig. Chromatogram of TCD