



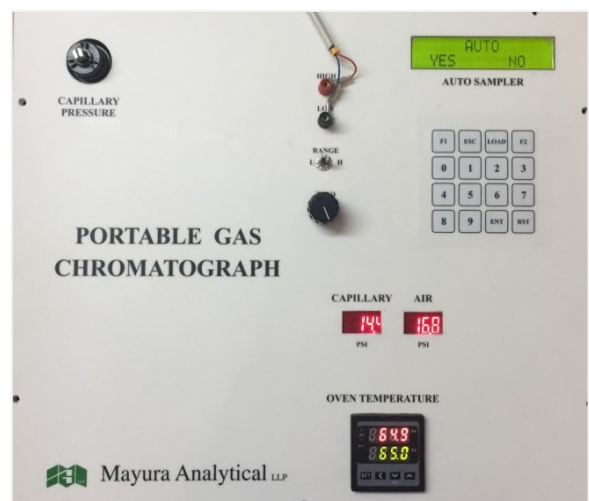
**Mayura Analytical** LLP  
Specialists in Analytical Instrumentation

## **Portable GC Model PNITRO**

### **Portable Gas Chromatography System for Nitrogen Purity Analysis**

*Mayura Analytical LLP is a leading organisation in analytical instrumentation that provides solutions to research institutions and industries to diagnose and resolve their analytical needs. Our pioneering products are made in India for the Indian market and beyond since our inception in 1984. We are widely acknowledged for our approach to chemical analysis and to customer troubleshooting. As recognised suppliers of analytical equipment to the **Indian Institute of Science (IISc), Bangalore and Indian Institute of Technology (All India)**, preeminent research and technology institutions of India as well as large industries such as **BIOCON**, we have cemented our standing in the market with our cutting edge expertise and solution focussed approach.*

The *Mayura Analytical Portable Gas Chromatograph* is a unique masterpiece developed for gases analysis and is completely portable, weighing about 6 kgs. **The Portable Nitrogen Analyser Model PNITRO** is a portable lightweight GC for Nitrogen purity estimation with built-in gas sampling valve to estimate Nitrogen impurity right at the source of Nitrogen. It has become a requirement, especially in





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Chemical and Pharma industries to estimate the purity of Nitrogen, which is used as a carrier gas in Gas Chromatography and input gas in many applications. When sampling the gas, it is important that the sample collection is done without any environmental contact or exposure so as to ensure that the real impurity profile is captured. Gas transportation with gas sampling bomb, gas sampling bag, such as Tedler bags, are prone to cross contamination. Regular Gas Chromatographs are quite bulky to be taken near the cylinder bank and it is impractical for the cylinders themselves to be carried into the laboratory.

Gases can be directly sent to the GC without any cross contamination without a syringe injection. The Thermal Conductivity Detector (TCD) built into the GC will determine up to few PPM of Oxygen in Nitrogen Gas, thereby providing accurate and reliable results. An easy carry compact carrier gas cylinder of 500 mL volume and a mini laptop will ensure the ease of analyses.

### *Specifications*

- Carrier gas : Hydrogen
- Column : Molecular Sieve
- Flow : Fine Control Needle Valve
- Detector : Thermal Conductivity Detector (TCD)
- Signal Control : Built-in Amplifier
- Operating Voltage : 220 AC Adaptor
- Measuring Range : 1 PPM Oxygen in Nitrogen
- Total Weight : 6 Kgs
- Dimensions : 350 x 360 x 195 mm