

# Nitrogen Analyzer

Protein is one of the six nutrients for human and animal survival and the material basis of all life, while nitrogen is one of the three major nutrients for plant development and growth. Haineng INOD-50 Dumas nitrogen analyzer can quickly detect protein/nitrogen content in samples without pre-treatment, reducing the detection time to 3 minutes; The whole experiment process does not use or produce any toxic chemicals, safe and environmental protection; Built-in automatic sampler, sample process without human intervention, automatic data processing, high degree of intelligence, effectively improve work efficiency.



## Features:

### 1. Intelligent characteristic

- Self-error diagnosis prompt, the instrument has 23 built-in fault diagnosis methods, if the self-test finds that the experimental conditions are not available, the state is not ready, etc., it will prompt the operator by alarm in time.
- Periodic maintenance reminder, according to the characteristics of the sample, quantity, oxygen consumption and other relevant data information, analyze and judge the use of consumables, determine the replacement time and cycle of consumables, and remind the operator to replace the consumables in time.
- Standby/wake up function, Dumas nitrogen analyzer startup preheating takes a certain amount of time to work stably, in order to reduce the efficiency caused by frequent switching, increase the standby wake up function, in the standby state of the instrument to maintain a constant temperature, when the wake up can be quickly restored to the working state.
- The instrument automatically collects weighing data without manual input, saving time; Double check of window display and voice broadcast to ensure data accuracy.
- Intelligent oxygenation function, the software adds oxygen to different samples according to different conditions, reducing the consumption of reducing agents.

### 2. Security features

- With overpressure isolation function to ensure the safety of users and instruments;
- Combustion stove with safe low voltage, over temperature alarm power off function, safer operation.

### 3. Convenient features

- The software has automatic and manual leak detection function, which is convenient for the operator to check the instrument after the replacement of consumables;
- Real-time display of gas flow, burner and detector temperature, detector value and pressure monitoring data;
- Built-in expert method library, users can directly select the corresponding experimental method when doing sample analysis, easy to operate, and users can edit and save the method according to their own needs;
- You can customize the format of the experimental report, unit name, unit Logo, etc.;
- Data processing: The software has RSD and average calculation functions.

### 4. Economic characteristics

- Use carbon dioxide as carrier gas to save experiment costs;
- The use of high efficiency metal condenser, high water removal efficiency, can save the consumption of chemical water removal agent, save the cost of the experiment.

## Specifications

Analysis time	3 to 4 minutes/piece
Detection recovery rate	99.5% or higher
Detection range	0.1 ~ 500mg nitrogen
Repetition error (RSD)	≤0.5% (150mg 10% nitrogen standard)
Sample weight	Solid ≤1g, liquid ≤1mL
Operating system	Windows 7 or later
Injection method	Pneumatic injection
sampler	1 x 60 bits
detector	Thermal conductivity Cell (TCD)
Carrier gas	Carbon dioxide
Burner temperature	1200°C (MAX)
Carrier gas purity	100.00%
Oxygen purity	100.00%
Internal module communication mode	RS485 bus
External interface	RS232, USB
Calibration mode Rated power	Linear calibration or nonlinear calibration, the user can customize the calibration curve order
Overall dimensions (L × W × H)	2000w
Net weight	735mmx 560mm x560mm
	80kg