# Automatic Kjeldahl Nitrogen Analyzer, 0.1-240 mg N, 5-10 min/Sample, ≥99.5% Recovery

Model **MSKJA-9860SWISS** | Brand **Master Science**





The Automatic Kjeldahl Nitrogen Analyzer determines nitrogen and protein content by automatic distillation and titration. It measures 0.1 to 240 mg N in 5 to 10 minutes per sample with RSD ≤ 0.5% and recovery ≥ 99.5%, for food, feed, tobacco, animal husbandry, soil and fertilizer, environmental, pharmaceutical, agricultural, teaching and quality-control labs.

KEY HIGHLIGHTS

- Precise Titration
- Fast Turnaround
- Safe Operation
- Simple Maintenance

AT A GLANCE

| 0.1-240 mg N | Solid ≤ 5 g; liquid ≤ 20 mL |
|---|---|
| MEASURING RANGE | SAMPLE CAPACITY |

**Request a Quotation**
Contact us for pricing, configuration options and delivery details.

support@themsci.com
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## Overview

A high-precision dosing pump and a titration system with 2.0 µL steps deliver accurate results, while an external titration cup lets operators watch the whole process. The Automatic Kjeldahl Nitrogen Analyzer monitors distillate temperature in real time and stops if it becomes abnormal, offers built-in cleaning routines, stores 1,000 result groups and prints them on an integrated printer.

Digest samples first in our 8-Hole Kjeldahl Digester, the matching unit for the Automatic Kjeldahl Nitrogen Analyzer.

Manual Kjeldahl distillation and titration cause the issues below. The Automatic Kjeldahl Nitrogen Analyzer solves each one.

## Key Benefits

**Precise Titration**
2.0 µL titration steps and a high-precision dosing pump support accurate nitrogen results.

**Fast Turnaround**
Each sample takes 5 to 10 minutes.

**Safe Operation**
Automatic cleaning and distillate temperature monitoring protect operators and results.

**Simple Maintenance**
Pre-set cleaning programs cover all key lines and vessels.

## Technical Specifications

### UNDEFINED

| | |
|---|---|
| Brand | Master Science |
| Model Number | MSKJA-9860SWISS |
| SKU | MSKJA-9860SWISS |
| Measuring Range | **0.1-240 mg N** |
| Analysis Time | 5-10 min per sample |
| RSD | ≤ 0.5% |
| Recovery | ≥ 99.5% |
| Burette Resolution | 2.0 µL/step |
| Sample Capacity | **Solid ≤ 5 g; liquid ≤ 20 mL** |
| Water Consumption (Distillation) | 1.5 L/min during distillation |
| Data Storage | 1,000 groups |
| Printer | Integrated |
| Safety | Real-time distillate temperature monitoring with automatic stop |
| Cleaning Functions | Receiving cup, alkali line, boric acid line, acid wash, steam bottle drain |
| Power Supply | 220 V AC ±10%, 50 Hz |
| Power | 2 kW |
| Dimensions | 455 × 391 × 730 mm |
| Net Weight | 38 kg |

### PROBLEMS THE AUTOMATIC KJELDAHL NITROGEN ANALYZER SOLVES

| | |
|---|---|
| Slow manual titration | Automatic distillation and titration take 5-10 minutes per sample. |
| Endpoint errors between operators | Automatic titration with 2.0 µL steps keeps results consistent. |
| Unsafe handling of hot alkali | Automatic cleaning and temperature monitoring reduce exposure. |
| Lost paper records | 1,000 result groups are stored and printed. |

## Applications

**Protein determination in food and feed**

**Nitrogen testing in soil and fertilizer**

**Tobacco and pharmaceutical nitrogen analysis**

**Environmental monitoring and quality supervision labs**

**Teaching and research laboratories**

## Distillation and Titration

- Automatic distillation and titration
- External titration cup for real-time viewing
- High-precision dosing pump
- Titration accuracy up to 2.0 µL/step

## Safety and Quality

- Real-time distillate temperature detection
- Automatic stop on abnormal temperature
- RSD ≤ 0.5%, recovery ≥ 99.5%

## Maintenance and Data

- Cleaning programs for receiving cup, alkali and boric acid lines
- Acid wash and steam bottle drain functions
- 1,000 result groups stored
- Integrated printer

## Standard Accessories Included

- Automatic Kjeldahl nitrogen analyzer main unit with integrated printer

## Optional Accessories

- No optional accessories are listed for this model; contact our team for compatible items.