

N-Realyzer - The new generation of rapid nitrogen determination according to Dumas

# NITROGEN ANALYSIS FULLY AUTOMATED



- Simple sample handling
- High work safety
- Precise cost calculation
- Resource-saving processes
- Intuitive operation
- Flexible availability
- Customised maintenance concepts
- Applicative support



## Advantages of the Dumas method

The Dumas method is a rapid analytical method for nitrogen determination as it does not require time-consuming digestion and distillation processes. The analytical solution is delivered compactly in one apparatus. In addition, the automated method with its optimised workflows is considered to be particularly safe, as it does not use any aggressive components such as acids.

Wide range of applications: The Dumas method can be used for the determination of nitrogen content in a wide range of sample matrices; N-Realyzer processes up to 100 samples in a series. In addition, the system offers the possibility to insert emergency samples.

## REAL-OS

The N-Realyzer software is FDA 21 CFR Part 11 compliant and provides fully traceable documentation in accordance with DIN ISO 17025.



Tool-free operation in your daily laboratory routine

### — Simple sample handling

Whether solid or liquid, with a high or low nitrogen content: N-Realyzer delivers reliable and precise results for up to 100 samples for every sample matrix.

### — High work safety

The robust design and tool-free handling during the daily work routine make operation intuitive and safe for everyone.

### — Precise cost calculation

Durable components in combination with high-quality consumables enable the best possible planning of overall costs.

### — Resource-saving processes

Factors such as sample-optimised oxygen management make operation as resource-efficient as possible, so that the costs per sample are kept to a minimum and everyday laboratory work is as economical as possible.

### — Intuitive operation

The user interface guides you through the analytical process and simplifies daily work in the laboratory with customisable routines and settings.

### — Flexible availability

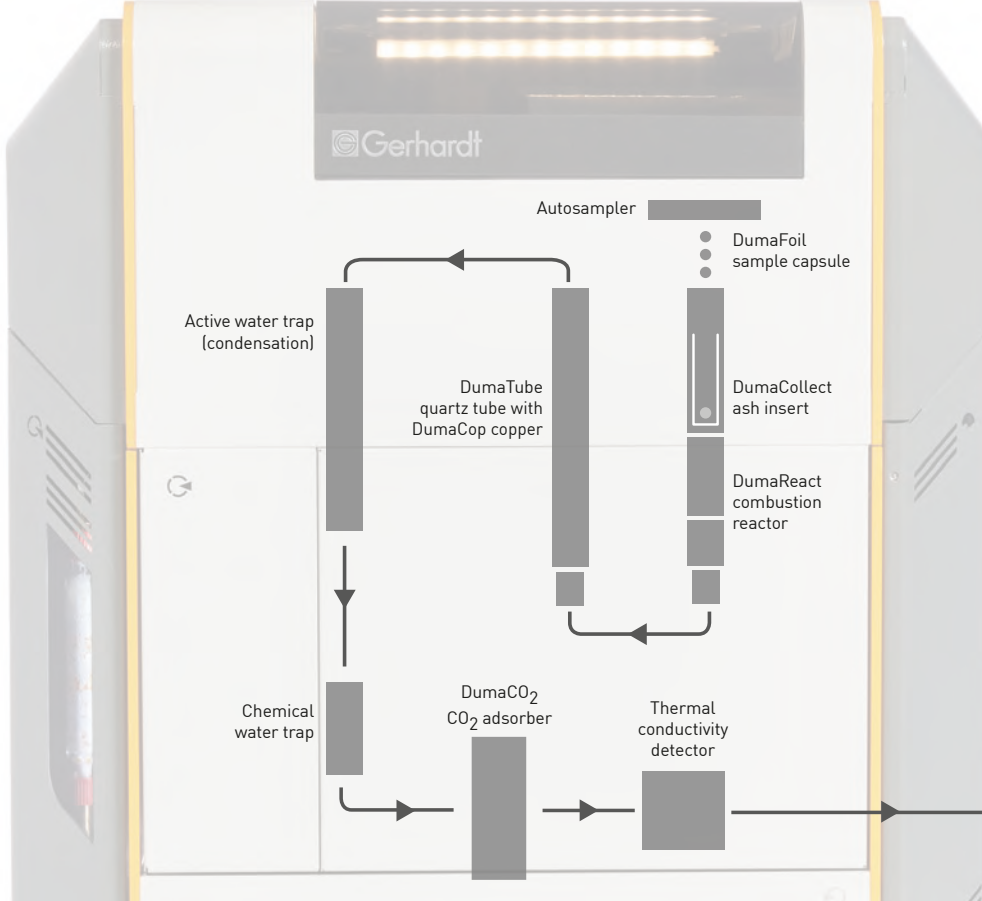
N-Realyzer is not bound to working hours and therefore increases productivity in your laboratory. The automated system check ensures work safety, even when the apparatus is unattended.

### — Customised maintenance concepts

All device components are designed for high reliability. Nevertheless, a service and maintenance concept is essential. Our service team will be happy to consult you!

### — Applicative support

Take advantage of our expertise and develop your individual application together with our laboratory team.



## The combustion process according to Dumas

Software  
REAL-0S

### Technical Information

Sample size	up to 1 g
Number of samples	1 up to 100 samples
Analysis time	3-5 min, depending on sample type and quantity
Detector	Thermal conductivity detector
Recovery rate	> 99,5 %
Helium detection limits	0,003 – 50 mg N absolute
Standard deviation	< 0,5 % (assuming standard preparation of the samples for the method in question)
Operation	Via REAL-0S Webinterface
Gases	Helium, oxygen (both grade 5.0) and compressed air (acc. to ISO 8573-1 class 3)
IP class	20
Dimensions (WxDxH) mm	600 x 550 x 722 (closed) 600 x 550 x 1.200 (opened)
Weight	approx. 130 kg

### Stay in touch:

Contact us:	info@gerhardt.de www.gerhardt.de/en
	Phone +49 (0) 2223 2999-0
We offer:	Consultation, online demo, service
Product information:	www.gerhardt.de/en/n-realyzer



C. Gerhardt GmbH & Co. KG  
Cäsariusstraße 97  
53639 Königswinter  
Germany

www.gerhardt.de/en