

ELTRA®

ELEMENTAL ANALYZERS

part of **VERDER**
scientific

ELEMENTRAC® ONH-p Series





High-performance inert gas fusion for reliable ONH analysis

- ▶ Closed gas management with optimized gas circulation for sensitive ONH determination
- ▶ Use of cost-efficient argon as carrier gas possible
- ▶ New catalyst furnace for sensitive oxygen measurement
- ▶ New software with comprehensive functionalities:
 - segmented leakage test
 - extensive statistic functionalities
 - user-friendly diagnosis and maintenance tools

ELTRA's ELEMENTRAC ONH-*p* series is designed for accurate and reliable determination of the elements oxygen, hydrogen and nitrogen. The new closed gas management with optimized gas circulation allows for precise measurements from ppm level to percentage range. Thanks to the development of a new robust and wear-free sample drop mechanism it is

possible to analyze standard samples reliably as well as granulates without capsules. This combination allows for a wide application range of ELTRA's ONH-*p* in R&D as well as in routine and process analyses.

Specifications

ONH Analyzers ELEMENTRAC® ONH-<i>p</i>	
	
ELEMENTRAC® ONH-<i>p</i>	ELEMENTRAC® ON-<i>p</i>
ELEMENTRAC® ONH-<i>p</i>	ELEMENTRAC® OH-<i>p</i>
Measuring range*	1 g sample weight
Oxygen	0.1 ppm – 2 %
Nitrogen	0.1 ppm – 2 %
Hydrogen	0.01 ppm – 1000 ppm
General data	
Analysis time	150 seconds
Calibration	Solid standards, gas
Detection	O ₂ : via Infrared absorption N ₂ /H ₂ : Thermal conductivity cell
Accepted sample geometry	Pins, granulates, wires, powders ...
Reagents	– Magnesium perchlorate – Sodium hydroxide – Copper oxide – Schutze reagent
Power supply	400 V, 3-phase; 1-phase on request
Options	– Gas calibration – External cooler – Gas purification
Required gas	– Argon 99.995% (ON/OH mode) – Helium 99.995 % (ON mode) – Nitrogen 99.995 % (OH mode) – Compressed air (2 – 4 bar)
Interfaces	USB
Cooling	– External cooler – Tap water – Cooling container

*The measuring range of the analyzers depends on the selected configuration.

The ONH series was designed with a special focus on user friendliness. The chemicals which need to be exchanged regularly are placed on the front of the analyzer for easy access; during operation, they remain hidden behind a door. The ELEMENTRAC ONH-*p* generation features new powerful software which is easily operated via a clearly structured user menu and which supports a variety of export functions. Another new feature is the automated segmented leakage test.

The flexibility of ELTRA analyzers has been continued with the new ELEMENTRAC ONH-*p* series which is available with freely selectable element combinations. The comprehensive range of options includes gas purification and gas calibration.



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