TECHNOLOGY

- High-temperature-combustion at 1,200°C
- No catalyst
- NDIR detection for CO₂
- ECD detection for TNb (optional: CLD/NDUV detection for TNb)
- Analytical methods TC, NPOC, TNb (TOCdiff, POC/VOC, TIC)
- DIN EN 1484 (TOC) compliant, DIN EN 12260 (TNb)
- 1 or 2 sample streams

PHYSICAL PROPERTIES

- Cycle time TC/TOC <1 min
- No moving parts valve system

ANALYTICAL PERFORMANCE

Measurement ranges

Low Range:	0–1 ppm or 0-10 ppm	
Standard Low:	0–200 ppm	
Standard High:	0–2.000 ppm	
High Range:	0–20.000 ppm	
Ultra High Range:	0-50.000 ppm	
Wide Range:	0-200 & 200-20.000 ppm	
Limit of detection:	0,1 ppm	
Cycle time TOC (NPOC): < 3 min.		
Cycle time TC/TOC:	< 1min.	
Repeatability:	± 2 % end-of-range	
TDS:	up to 200 g/l (20% NaCl)	
Particles:	< 2.000 microns	
	(optional: homogenizer and	
	sample preparation)	

ENVIRONMENTAL CONDITIONS

IP 54

ATEX & IECEX

7" Touch Panel

6x 0/4 – 20 mA

WLAN, GSM, 5G options

German, English, French,

Japanese, Chinese, Korean

4 programmable - NAMUR

Supported protocols: OPC UA, Ethernet, Profinet,

Modbus

standard

2 – 40 °C (optional 45° C)

< 85 % (no condensation)

(optional: IP 65, NEMA4X) Zone 1 / 2, T3 and T4,

Weight:	< 55 kg
Dimensions:	800 H \times 600 W \times
Power:	AC110 - 230 V ±
	50/60 Hz approx.
Carrier gas:	CO ₂ free instrume

g	
\times 600 W \times 320 D mm	
0 – 230 V ±10 V	
Hz approx. 600 VA	
ee instrument air	

Indoors: Relative humidity: Housing: Ex p-Enclosure:

COMMUNICATION

•	Predictive maintenance	/ self-diagnosis
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- Regular monthly maintenance < 0,5 h/month
- Reactor life time > 3 years

MAINTENANCE

- Self-cleaning and back-wash function
- Separated analytical and electronical compartments

E22002

HORIBATOCADERO

Display:

Relays:

Languages:

Analog outputs:

Communication:

T +49 (0)30 6392 3150 F +49 (0)30 6392 3151

info@tocadero.com www.horiba-tocadero.com



On-line TOC Analyzer

TOCADERO ONE

ation Water Analytics





On-line water analytics with **HORIBA**TOCADERO

The TOCADERO ONE analyzer takes the evolution of modern on-line water analytics to the next level. The analyzer platform combines sophisticated water analytics, stringent requirements in terms of accuracy and reliability, and the latest sustainable and future-proof hardware and software solutions. Based on the unique platform architecture of the TOCADERO ONE, the range of available analytical parameters is being continuously expanded.

TOC & TNb analysis

The sum parameters TOC and TNb are some of the most important parameters in water and wastewater analysis. While the TOC (total organic carbon) provides information about the organic substance pollution in water, the TNb (total nitrogen bound) reflects the nitrogen pollution. The TOC is determined in accordance with DIN EN 1484 and the TNb in accordance with DIN EN 12260. The thermal oxidation at 1,200°C is particularly beneficial for determining both sum parameters.

- Detection of all organic compounds
- Quick and reliable detection of CO₂ using NDIR technology
- No catalyst
- Low use of chemicals

Next generation water analytics **IIOT / Industry 4.0**

Conventional systems used for water analysis are usually inefficient, not very intuitive and require a lot of maintenance. The comprehensive expertise at **HORIBA**TOCADERO and intensive product development carried out with our industry partners means that the new TOCADERO ONE analyzer platform is already meeting the requirements of the future.



User-friendly, intuitive softwarere



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Precise status monitoring using cutting-edge sensors

State-of-the-art communication and interfaces

Status cockpits and predictive maintenance

Small footprint and low energy comsumption

Reduced operating and maintenance costs





Wide range of applications

Our platform-based TOCADERO ONE analysis system is flexible enough to deal with the multifaceted nature of modern water analytics. It is suitable for ultrapure water in the ppb range, through to wastewater and saline process water. The appropriate method for the analysis of water depends on the composition of the sample. The TOCADERO ONE can always be adapted to suit your specific measurement requirements.



The TOCADERO ONE can be used anywhere that requires the quick, accurate and reliable determination of TOC and TNb.

- Wastewater
- Process water
- Ultrapure water (pharma, WFI, UPW)
- Cleaning in Place (CIP)
- Cooling water
- Boiler feed water
- Drinking water
- Seawater

HORIBATOCADERO

The advantages at a glance

Highest analytical performance with a short measuring time

Catalyst-free high-temperature-combustion at 1,200°C with fast-change technology

Unique particle treatment capability up to 2 mm in diameter



Minimal consumable requirements and support costs



No memory effects thanks to inert, extremely smooth surfaces



Highest manufacturing quality "Made in Germany"



IIoT implementation / Industry 4.0



Convincing cost of ownership

