

# The Parker On-Line THM Analyzer

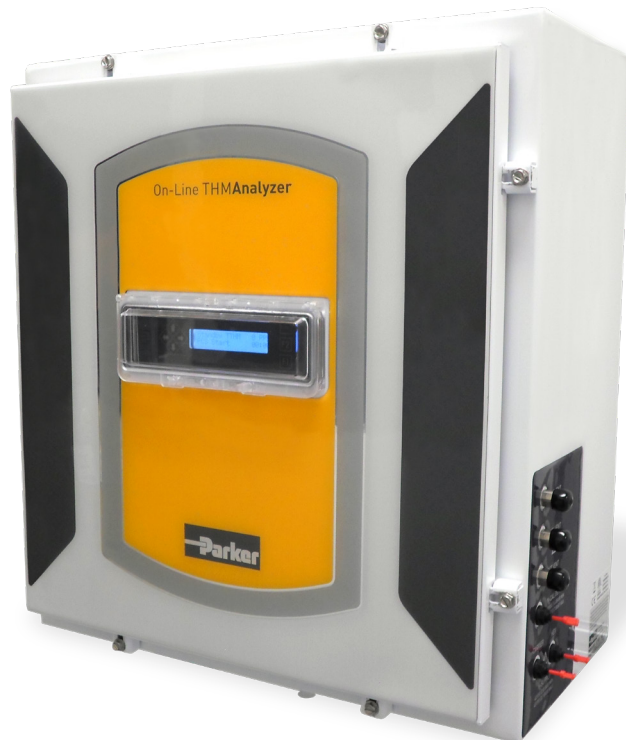
Automated, continuous on-line process measurement of Trihalomethanes (THMs) helps create safe drinking water



## Real-time control for water quality optimization

Parker's new On-Line THM Analyzer is a fully automated, purge-and-trap gas chromatograph that measures individual and total THM concentrations to low ppb levels without the use of reagents.

Our SCADA-interfaceable analyzer provides real-time data acquisition, facilitating remote operation and data trending capability. This allows operators to optimize treatment, identify/resolve water age issues, amend flushing to save water, and monitor water storage tanks, facilitating water quality.



## Contact Information:

Parker Hannifin Corporation

**Instrumentation Products Division**  
1005 A Cleaner Way  
Huntsville, AL 35805

phone 256 881 2040  
fax 256 881 5730  
ipdsales@parker.com

[www.parker.com/ipdus](http://www.parker.com/ipdus)

## Product Features:

- Automated on-line sampling
- Integrated purge-and-trap
- Five 4-20 mA outputs
- Small NEMA 4 enclosure
- Programmable sample start time

## Product Benefits:

- No operator interaction required
- No reagents or reagent water necessary
- SCADA-integration; total and individual THM concentrations
- Allows installation flexibility
- Optimizes sampling frequency



ENGINEERING YOUR SUCCESS.

# Automated control over THM formation for municipal water treatment plants and water distribution systems



## Easy and Automated

The Parker On-Line THM Analyzer has been designed for high precision, high accuracy measurement of THMs, offering a full complement of calibration and quantification routines. Regular sample analysis – without operator interaction will automatically take place no matter where the Analyzer is installed.

## Robust Construction

A complete analytical package, the Parker On-Line THM Analyzer features a NEMA 4 enclosure, allowing the operator to install the system right at the process or distribution point of interest. Through SCADA interaction, the operator can determine when and how often analysis is performed.



## Lower Cost, Higher Reliability

Designed with the input of water industry experts and end users, the Parker On-Line THM Analyzer offers a cost-effective approach to Disinfection Byproduct (DBP) optimization. Using a reagent-less method and simple design, instrument results can be trusted by operators, allowing them to make valuable process decisions without waiting weeks for off-site lab data.

Dimensions	20" W x 25" H x 12" D
Weight	40 lbs (18 kg)
Power Supply	Universal AC input, 24 VDC internal
Carrier gas	UHP grade nitrogen*
Carrier gas supply pressure	40 – 45 psig (2.7 – 3.1 bar)
Water supply pressure	40 – 50 psig
Water sample volume	40 ml
Average measurement time	Less than 30 minutes
Maximum sample frequency	One sample per hour
Recommended ambient environment	41° to 104°F (5° to 40°C)
Factory calibration	Up to 80 ppb for each THM compound

\* Up to 4,000 cycles from a single 300 cubic foot high-pressure cylinder (DOT 3AA2400)