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.

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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
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.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>20” W x 25” H x 12” D</th>
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</thead>
<tbody>
<tr>
<td>Weight</td>
<td>40 lbs (18 kg)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Universal AC input, 24 VDC internal</td>
</tr>
<tr>
<td>Carrier gas</td>
<td>UHP grade nitrogen*</td>
</tr>
<tr>
<td>Carrier gas supply pressure</td>
<td>40 – 45 psig (2.7 – 3.1 bar)</td>
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<tr>
<td>Water supply pressure</td>
<td>40 – 50 psig</td>
</tr>
<tr>
<td>Water sample volume</td>
<td>40 ml</td>
</tr>
<tr>
<td>Average measurement time</td>
<td>Less than 30 minutes</td>
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<tr>
<td>Maximum sample frequency</td>
<td>One sample per hour</td>
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<tr>
<td>Recommended ambient environment</td>
<td>41º to 104ºF (5º to 40ºC)</td>
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<tr>
<td>Factory calibration</td>
<td>Up to 80 ppb for each THM compound</td>
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* Up to 4,000 cycles from a single 300 cubic foot high-pressure cylinder (DOT 3AA2400)