

ANATEL TOC600

ONLINE TOTAL ORGANIC CARBON ANALYZER



Value and performance in TOC analysis

- Plug and play - easy installation, start up, and operation
- Online TOC measurement with complete, accurate sample oxidation
- Meets USP <643>, <645>, and EP 2.2.44 requirements for TOC analysis
- Accurate measurement independent of flow rate, pressure or temperature
- Highly reliable, rugged, all-metal design
- No reagents or chemicals required
- No external controller required for analyzer operation

Anatel TOC analyzers are the industry standard for purified water and ultrapure water. The ANATEL TOC600 provides online TOC analysis for a range of applications requiring USP Chapter <643> and EP Chapter 2.2.44 for TOC requirements and USP Chapter <645> for conductivity measurement. The ANATEL TOC600 combines a rugged all metal design with patented stop-flow oxidation technology. This approach offers complete oxidation of an aliquot of water, fully complying with USP Chapter <643> and EP 2.2.44. The wide dynamic range of the ANATEL TOC600 allows for monitoring of TOC levels across a range of water system applications.

A separate, portable proving system, the CSV module, provides an easy to use system for performing validation, calibration, and system suitability testing. The ANATEL TOC600 can be calibrated using multiple points, offering an accurate calibration curve. The self-contained CSV module can be used across multiple analyzers and requires less standards for a significant reduction in the overall cost of ownership.

Each ANATEL TOC600 can be operated using remote control inputs. Up to eight ANATEL TOC600 analyzers can be networked to one C80 controller providing a low cost multiple analyzer system. Operation of the CSV Module is directed through the C80 controller. The TOC600 automatically calculates results that are formatted into reports for display, print, and archive.

With a robust design, high-reliability, unmatched performance, USP and EP compliance, and a low cost of ownership, the ANATEL TOC600 represents a new class in value for TOC analyzers.



Performance Specifications

Measurement Range	1 to 1,000 ppb as Carbon
Repeatability	±1% or 1 ppb, whichever is greater
Display Resolution	1 ppb
Conductivity Accuracy	2% over full range (uncompensated)
Conductivity Range	0.05 to 150 µS/cm (@ 25 °C)
Conductivity Display Resolution	0.01 µS/cm over full range
Resistivity Range	0.01 to 18 MΩ-cm (@ 25 °C)
Resistivity Display Resolution	0.1 (up to 14.9 MΩ-cm), 1.0 (from 15-18 MΩ-cm)
Maximum Input Conductivity	0.2 µS/cm for all waters, 1.0 µS/cm for all neutral waters 5 µS/cm for water with CO ₂ as the sole conductive species
Conductivity Modes	Temperature compensated to 25 °C or uncompensated
Temperature Accuracy	±0.5 °C
Minimum Water Quality	0.2 to 18.2 MΩ-cm (0.05 to 5 µS/cm)
Water Temperature	5 to 90 °C (41 to 194 °F)
Flow Rate	60 mL/min to 300 mL/min
Pressure	10 to 100 psi (60 to 690 kPa)
Installation Category	11, IEC 1010
Power	100 to 240 VAC, ±10%, 50/60 Hz
Dimensions	193mm H x 419mm W x 119mm D (7.6" H x 16.5" W x 4.7" D)
Pollution Degree	2, IEC 664
Ambient Temperature	15 to 35 °C (59 to 95 °F)
Humidity	95% relative humidity, non-condensing
Maximum Altitude	4,000 meters (13,125 ft)
Weight	4.85 kg (10.7 lbs)
Analog	4-20 mA, opto-isolated 12 VDC, non-isolated @ ½ amp max.
Digital	Two, opto-isolated inputs; Two, opto-isolated outputs
Serial	RS-232 data acquisition, RS-232 printer port, RS-232 diagnostics
A-net	Protocol RS-485 Maximum Sensors 8 Maximum Controllers 8 Maximum Network Length 1 km (3,000 ft)
Cabling	Shielded twin-axial, Twist-Lock® BNC
Ordering Information	TOC600 Online TOC Analyzer C80 controller 120 VAC 230 VAC CSV module



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