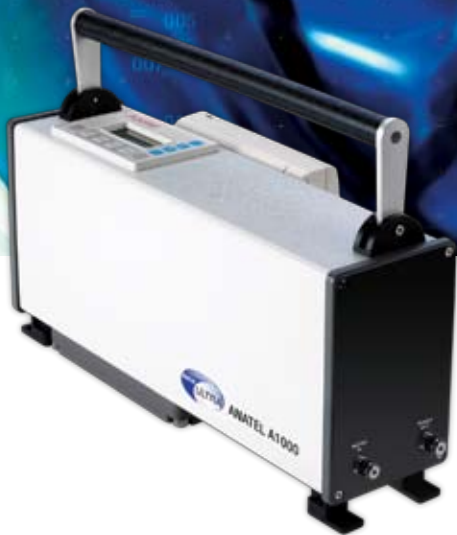


ANATEL A1000

TOTAL ORGANIC CARBON ANALYZERS



Superior stability for UPW TOC monitoring

Features

- Patented stopped flow and photocatalytic oxidation
- Robust design offers superior reliability
- Network sensors with ANET
- Detection limits to 0.05 ppb TOC
- Convenient serial, analog and digital interfacing
- Portable TOC sensors

Modern ultrapure water systems demand TOC analyzers that provide the lowest detection limits, most accurate results, maximum sensitivity to the smallest changes in water quality, and a measure of reliability that meets the most rigorous quality standards.

The A-1000 is ideal for monitoring ultrapure water production and measuring the influent and effluent water at rinse stations to ensure that cleaning is complete. You can also monitor hot and cold water to detect and report quickly even the most rapid TOC changes in the ultrapure water system.

The A-1000 offers detection limits from 0.05 to 1999 ppb TOC. This operating range ensures the correct operation of water systems in the semiconductor and flat panel display industries. To give an idea of the level of sensitivity, consider that 1 second over a period of 32 years is an equivalent comparison to 1 ppb of carbon in solution.

The A-1000 family of TOC Analyzers includes all the features needed to monitor organic contamination in today's most efficient ultrapure water systems. Anatel's TOC Analyzers eliminate guesswork in your process and offer total confidence in your operations.



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EXCELLENCE IN PROCESS ANALYTICS

Performance Specifications

Operating Range	0.05 to 1999 ppb as carbon
Repeatability	±0.05 ppb < 5 ppb TOC, ±5% > 5 ppb TOC
Minimum Input Resistivity	5.0 M-cm for all waters 1.0 M-cm for neutral waters 0.2 M-cm for water with CO ₂ as sole conductive species
Ambient Operating Temperature	S10 Sensor 5 to 40°C (41 to 104°F) S20/S20P Sensor 5 to 35°C (41 to 95°F)
Sample Water Temperature	0 to 100°C (32 to 212°F)
Inlet Pressure	100 psig maximum (690 kPa)
Display Resolution	0.00 to 19.99 ppb, 20.0 to 199.9 ppb, 200 to 1999 ppb
Purge Mode Resistivity	0.01 to 18.20 M-cm
Conductivity	0.05 to 100 microsiemens/cm
Display Resolution	Three significant figures as resistivity Four significant figures as conductivity
General Installation Category	II, IEC 1010
Pollution Degree	2, IEC 664
Anet Network Capacities Type	RS-485
Sensors	8 maximum
C80 Controllers	8 maximum (any configuration)
Network Length	1 km (3,000 ft) maximum
Network Cabling	Shielded Twin-axial, Twist-Lock BNC
Display Main	1-line x 16-character Super-Twist LCD
Backlighting	Yellow LED
Character Height	0.163"
Physical Operating Temperature	0 to 35°C (32 to 95°F) 90% relative humidity maximum
Altitude	4,000 m (13,125 ft) maximum
Size	330 L x 172 W x 112 D mm (13.0 x 6.8 x 4.4 inches)
Weight	6.5 kg (12.75 lbs)
Analysis Cell Volume	7.5 mL
Power	85 to 264 VAC ±10%, 50/60 Hz
Power Consumption	2 Amps max. @ 120 VAC, 1 Amp max. @ 230 VAC
I/O Connections Analog	Opto-isolated 4-20 mA output Non-isolated 12 VDC output @ 1/2 Amp max.
Digital I/O	Two opto-isolated inputs, Two opto-isolated outputs
Serial Interfaces	RS-485 opto-isolated Network, RS-232 Data Acquisition, RS-232 Printer, RS-232 Diagnostics



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