

F22 Total Organic Carbon Analyzer



Product Description

The F22 Total Organic Carbon Analyzer is a high-performance TOC testing instrument independently developed by Folistech. It is designed for the determination of trace organic

carbon content in applications such as pharmaceutical water and electronic ultrapure water.

The instrument is built with key advantages including ppb-level detection capability, low maintenance requirements, and compliance-oriented design, helping users solve common issues associated with conventional TOC analyzers, such as insufficient sensitivity and complicated maintenance procedures.

The F22 adopts the conductivity difference method for the accurate determination of trace organic carbon in water samples. With its compact structure and embedded touchscreen operating system, it is suitable for offline testing and routine laboratory analysis.

Technical Features

1. Independently developed core detection technology with ppb-level sensitivity
2. Suitable for trace organic carbon analysis in high-purity water systems
3. Based on the conductivity difference detection principle
4. Fast response and high analysis efficiency
5. Embedded touchscreen interface for simple and intuitive operation
6. Compact and portable design for flexible use in different testing scenarios
7. Suitable for both offline testing and laboratory routine analysis
8. Stable operation and simplified maintenance
9. Supports data storage and data export
10. Suitable for compliance, audit, and data traceability requirements

Power Supply	AC 220V \pm 10%
Conductivity Range	0 - 10 μ S/cm
Resolution	0.001 mg/L
Accuracy	\pm 3%
Repeatability	\leq 3%
Measurement Range	0.001 - 1.600 mg/L (1600 ppb)
Principle of Measurement	UV oxidation + direct conductivity
Applications	Offline laboratory analysis; cleaning validation
Sample Temperature	1 - 95° C
Relative Humidity	\leq 100% RH
Response Time	Within 5 minutes
Analysis Time	Approx. 3 minutes per test
User Management	3-level user access
Data Storage	32 GB
Operating System	Windows CE
Display Screen	7-inch color touchscreen
Power Consumption	\leq 120 W
Historical Data	Up to 1,000,000 records; unlimited storage via USB export
Data Backup	USB export supported, including test curves; optional PC operation
Communication Interfaces	RS232 / RS485 / USB / Ethernet
Printer	Built-in dot matrix printer
Pharmacopoeia Compliance	ChP 2025, USP <643>, EP 2.2.44
Data Integrity	FDA 21 CFR Part 11 compliant
Recommended Calibration Interval	12 months
Housing Material	ABS engineering plastic
Certifications	CE, RoHS
Qualification Documents	Patent certificate, EU CE certificate, software copyright certificate, industry calibration procedure
PC Software	Available

Applications

Pharmaceutical Industry:

Used for TOC analysis and compliance verification of pharmaceutical water, including purified water and water for injection (WFI), in full compliance with pharmacopoeia and GMP requirements.

Semiconductor / Electronics Industry:

Used for TOC monitoring of electronic ultrapure water to strictly control water purity and help ensure the quality of electronic component manufacturing.

Laboratories / Research Institutions:

Suitable for ultrapure water quality verification and offline trace TOC analysis of various water samples, providing accurate and reliable data support for research and laboratory applications.

Power Industry:

Applicable to TOC analysis of boiler feed water and condensate water, helping prevent scaling and corrosion caused by organic contaminants and ensuring the safe and stable operation of power equipment.

Other Industries:

Suitable for industries with stringent requirements for high-purity water quality, such as new energy, aerospace, and biopharmaceuticals, providing comprehensive TOC analysis support for high-standard applications.