

9220 TOC

ONLINE TOTAL ORGANIC CARBON ANALYZER





For more information visit: YSI.com/9220

Reliable data for regulatory compliance and process control

The **9220 Online TOC** Analyzer, developed from over 50 years of TOC experience, provides unmatched performance, reliability, ease of use, and low cost of ownership to meet your specific water quality standards.



EPA compliant - Compliant with US EPA regulations 415.3 (source and drinking water) and Standard Method 5310C (wastewater).



Improved process control - Optimize coagulation and flocculation of raw water and maintain total organic carbon removal targets.



Multi-stream capability - Monitor up to four process streams on a single analyzer at no additional cost.



Robust Design - Housed in a waterproof enclosure to operate in the harshest conditions.



a xylem brand

9220 Online TOC TOTAL ORGANIC CARBON ANALYZER SPECIFICATIONS

Departing Principle Heated sodium persulfate oxidation	Performance	
Measurement Technique Non-dispersive infrared (NDIR) detection Regulatory Method Compliance USEPA 415.3 (source waster & drinking water) Measurement Range 0 to 25 ppm (standard); adjustable up to 100 ppm Measurement Accuracy ±5% Measurement Precision 2% RSD Limit of Detection 0.015 ppm Sample Processing Alwayis Time 5 to 9 minute intervals Sample Processing Valve Controls 4 (included) Sample Processing Valves Up to 4 (optional) General Operator Interface 7 "WSVGA display with a capacitive touchscreen (Windows* CE-based) External Dimensions (Enclosure) 58.5 cm H x 55.9 cm W x 25 cm D (24.75 in H x 22 in W x 10 in D) Mounting Dimensions (Panel Wr reagent tray) 113.7 cm H x 55.9 cm W x 25 cm D (24.75 in H x 22 in W x 10 in D) Mounting Dimensions (Panel Wr reagent tray) 113.7 cm H x 55.9 cm W x 25 cm D (24.75 in H x 22 in W x 10 in D) Mustrument Enclosure Certifications IEC 61326-1, IEC 61010-1, cETLus (ETL and CSA Standards) Instrument Enclosure Certificat		Heated sodium persulfate oxidation
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Limit of Detection 0.015 ppm Sample Processing/Analysis Time 5 to 9 minute intervals Sample Processing Ports 6 (included) Sample Processing Valve Controls 4 (included) Sample Processing Valves Up to 4 (optional) General Operator Interface 7" WSVGA display with a capacitive touchscreen (Windows® CE-based) External Dimensions (Enclosure) 58.5cm H x 55.9cm W x 25.4cm D (23in H x 22in W x 10in D) Mounting Dimensions (Panel w/ reagent tray) 113.7cm H x 55.9cm W x 28.cm D (44.75in H x 22in X 11in D) Certifications IEC 61326-1, IEC 61010-1, cET Lus (ETL and CSA Standards) Instrument Enclosure Certifications IP66; NEMA 4 Analyzer; 16.6 kg (36.5 lbs) Analyzer, panel w/ reagent tray, PGM, and full reagent containers: 44.4 kg (98 lbs) Instrument Warranty 2 years Reagents And Requirements Reagents And Requirements Reagent Lifetime (Liquid) Nominally 30 days at 77 °F (25 °C); 90 days at temperatures less than 39 °F (4 °C) Sample and Gas Requirements Sample Flow Rate to Sample Inlet Device 50 to 1,000 mL/min when using Sample Inlet Device Sample Temperature Range 4 to 113 °F (5 to 45 °C) Gas Requirements (internally generated) Process Gas Module (included); Consumption = < 100 mL/min. CO2 free air Prover and Communication Power Requirements (internally generated) Process Gas Module (included); Consumption = < 100 mL/min. CO2 free air Prover and Communication Power Requirements (internally generated) Process Gas Module (included); Consumption = < 100 mL/min. CO2 free air Prover and Communication Power Requirements (internally generated) Process Gas Module (included); Consumption = < 100 mL/min. CO2 free air Prover and Communication Power Requirements (internally generated) Process Gas Module (included); Consumption = < 100 mL/min. CO2 free air Prover and Communication Power Requirements (internally generated) Process Gas Module (included); Consumption = < 100 mL/min. CO2 free air Prover and Communication Prover and Communication Prover Balance Contents to Survented Relays (Prover Balance Contents to Survented Relays (Prover	Measurement Accuracy	±5%
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Operator Interface 7" WSVGA display with a capacitive touchscreen (Windows® CE-based) External Dimensions (Enclosure) 58.5 cm H x 55.9 cm W x 25.4 cm D (23in H x 22in W x 10in D) Mounting Dimensions (Panel w/ reagent tray) 113.7 cm H x 55.9 cm W x 28 cm D (44.75 in H x 22in x 11 in D) Certifications IEC 61326-1, IEC 61010-1, cETLus (ETL and CSA Standards) Instrument Enclosure Certifications IP66; NEMA 4 Weight Analyzer; 16.6 kg (36.5 lbs) Analyzer; panel w/ reagent tray, PGM, and full reagent containers: 44.4 kg (98 lbs) Instrument Warranty 2 years Reagents and Requirements Reagents Required 10% sodium persulfate, 5% phosphoric acid, DI water Reagent Containers 5L high-density polyurethane Reagent Lifetime (Liquid) Nominally 30 days at 77 °F (25 °C); 90 days at temperatures less than 39 °F (4 °C) Sample and Gas Requirements Sample Flow Rate to Sample Inlet Device 50 to 1,000 mL/min when using Sample Inlet Device Inlet Pressure 1 to 20 psig with Sample Inlet Device Sample Temperature Range 41 to 113 °F (5 to 45 °C) Gas Requirements (internally generated) Process Gas Module (included); Consumption = < 100 ml/min. CO2 free air Power and Communication Power Requirements 100 to 240 VAC, 70VA, 50/60 Hz Input Relays 2 (remote start, remote stop); 5A/30 VDC Max - potential free contact closure Output Relays 2 (system alarm, sample alarm); 5A/30 VDC Max - potential free contact closure Analog Outputs 4 (4 to 20 mA; user-configurable concentrations) Digital Outputs 8 RS-485/422 Modbus RTU protocol or ASCII standard Data Export 7 PC via USB memory stick (Microsoft® Excel®-ready .csv file format) Environmental Operating Temperature Range 41 to 113 °F (5 to 45 °C) Humidity Up to 90% humidity (non-condensing)	Sample Processing Valves	Up to 4 (optional)
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IEC 61326-1, IEC 61010-1, cETLus (ETL and CSA Standards) Instrument Enclosure Certifications IP66; NEMA 4 Weight	External Dimensions (Enclosure)	58.5cm H x 55.9cm W x 25.4cm D (23in H x 22in W x 10in D)
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Analyzer, panel w/ reagent tray, PGM, and full reagent containers: 44.4 kg (98 lbs) Instrument Warranty 2 years Reagents and Requirements Reagents Required 10% sodium persulfate, 5% phosphoric acid, DI water Reagent Containers 5L high-density polyurethane Reagent Lifetime (Liquid) Nominally 30 days at 77 °F (25 °C); 90 days at temperatures less than 39 °F (4 °C) Sample and Gas Requirements Sample Flow Rate to Sample Inlet Device Inlet Pressure 1 to 20 psig with Sample Inlet Device Sample Temperature Range 41 to 113 °F (5 to 45 °C) Process Gas Module (included); Consumption = < 100 ml/min. CO2 free air Power and Communication Power Requirements 100 to 240 VAC, 70VA, 50/60 Hz Input Relays 2 (remote start, remote stop); 5A/30 VDC Max - potential free contact closure Analog Outputs 4 (4 to 20 mA; user-configurable concentrations) Digital Outputs RS-485/422 Modbus RTU protocol or ASCII standard Data Export To PC via USB memory stick (Microsoft® Excel®-ready .csv file format) Environmental Operating Temperature Range 41 to 113 °F (5 to 45 °C) Humidity Up to 90% humidity (non-condensing)	Instrument Enclosure Certifications	IP66; NEMA 4
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