



300 40057 Rev. B

InnovOx Online Specification

InnovOx Online Total Organic Carbon (TOC) Analyzer

General	1	Tag No.	Tag Rev.		
	2	P&ID No.			
	3	Line No.	Equip No.		
	4	Line Size			
	5	Line Spec			
	6	Area Classification		Non-Hazardous (standard), NEMA 4X (option)	
	7				
Process Data	8	Fluid	Fluid Phase		Liquid
	9	Flow	Min/Oper/Max	50 - 400 mL/min (w/o filtration)	3-5 GPM (w/ filtration)
	10	Pressure	Min/Oper/Max	< 1 PSI Backpressure (MAX)	
	11	Temp	Min/Oper/Max	5°C	60°C (85°C optional sampler)
	12	Conductivity	Min/Oper/Max	N/A	N/A
	13	TOC	Min/Oper/Max	0.05 ppm	50,000 ppm
Instrument	14	Type	Analysis Method	Online Integrated	SCWO / NDIR
	15	Analysis Modes		NPOC, TOC (TC-IC), TC, IC	
	16	Analysis Time		2.6 to 8.3 min. in Online mode	
	17	Inlet Connection	Connection Size	Quick-connect or barbed	0.25 in. PVC for barb
	18	Outlet Connection	Connection Size	Barbed	0.25 in. PVC for barb
	19	Surface Finish	Wetted/Non Wetted	Mfg Std	Mfg Std
	20	Ozone Continuous	Ozone Periodic	N/A	N/A
	21	Sample Temp Rng	Sample Press Rng	5 to 60°C (85°C optional sampler)	< 1 PSI Backpressure (MAX)
	22	Raw Cond Rng	Max Sample Cond	N/A	N/A
	23	Cond Accuracy	Cond Precision	N/A	N/A
	24	TOC Range		0.05 to 50,000 ppm	
	25	TOC Accuracy	TOC Precision	+/- 3% or +/- 0.25ppm, 1 to 100ppm	RSD ≤3% of reading at >5 ppm
	26	Type		Integrated	
	27	Full Span	Lower/Upper	0 ppm	50,000 ppm
	28	Calib Range	Lower/Upper	0 ppm	50,000 ppm
	29	Accuracy		Same as Instrument	
	30	Enclosure Material	Enclosure Rating	Powder Coated Alum	IP-56/NEMA 4X
	31	Electrical Connection		Hard wire 100 to 240 VAC (+/- 10%), 50/60 Hz, 400VA	
	32	Analog Output	Signal Communications	6	Ethernet (Modbus and TCP/IP), USB
	33	Display Type		Color LCD w/ touch screen	
34	Manufacturer		SUEZ		
35	Model No.		InnovOx Online		
Other	36	Carrier Gas		CO ₂ free air or nitrogen; Oil- and water-free; 20-100 psi required	
	37	Wetted Materials		PFA, ETFE, Acrylic, PE, BPT, Titanium, SS 316, PVC, PVDF, PTFE	
	38	Calibration Stability		up to 6 months	
	39	Interferences		HF, F ⁻ , Concentrated reducing acids (HCl, HBr, HI, H ₂ SO ₄ , or H ₃ PO ₄)	
	40	Ambient Temperature		10 to 40°C	
	41	Max Relative Humidity		Up to 95%, non-condensing	
	42	Maximum Altitude		3,000 m (9,843 ft)	
	43	Inputs		(1) Binary Input for Remote Analysis Start/Stop	
	44	Outputs		(1) Ethernet (Modbus TCP/IP); (6) Isolated 4-20mA, 5 analytical and 1 stream ID.	
	45	Outputs		(1) External USB, (2) Internal USB, (1) Binary End-of-Analysis Output	
	46	Safety Certifications		ETL, conforming to UL 61010-1, CE	
	47	Dimensions		36.5"x25.4"x15.3" (92.7x64.6x38.7cm) (HxWxD)	
	48	Weight		36.3 kg (80 lbs)	
	49	Sample Particle Size		≤ 200 µm diam and 100 ppm TSS without filtration. >200 µm diam and 1,000 ppm TSS with optional wastewater sampler (WWS). Max solids loading of 1,000 mg/L or 0.1% TSS for WWS or 100 mg/L or 0.01% with WWS.	
Notes	Options: Air Purifier (Removes CO ₂ from compressed air), Wastewater sampler (Streams with >200 µm diameter particles), Hot Water Sampler (streams with temperature 60-85°C), Fail Safe Kit (Detects no flow and no reagents), NEMA 4X Enclosure (Protects from water jets, dust, corrosive gases), Mounting Stand, Sample Pump Option (Streams with no head pressure).				