



300 40059 Rev. A

M5310 C Online Specification

M5310 C 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		
	7					
Process Data	8	Fluid	Fluid Phase	Water	Liquid	
	9	Flow	Min/Oper/Max	50 mL/min	N/A	
	10	Pressure	Min/Oper/Max	2 psig (0.14bar)	100psig (6.89bar)	
	11	Temp	Min/Oper/Max	5°C	60°C	
	12	Conductivity	Min/Oper/Max	N/A	N/A	
	13	TOC	Min/Oper/Max	4 ppb	50,000 ppb	
Sensor	14	Type	Analysis Method	Online Integral	UV Pers/Membrane Conductivity	
	15	Analysis Modes		Online, Grab, TOC Removal Grab & Online, Online Timed, Dual Stream Online (optional ¹)		
	16	Analysis Time		2 Minutes		
	17	Inlet Connection	Connection Size	Swagelok Compression	0.25 inch	
	18	Outlet Connection	Connection Size	Barbed	0.5 inch	
	19	Surface Finish	Wetted/Non Wetted	Mfg Std	Mfg Std	
	20	Ozone Compatibility ²		200 ppb		
	21	Sample Temp Rng	Sample Press Rng	5 to 60°C	2-100psig (0.14-6.89bar)	
	22	Instrument Flow Rate		0.5 mL/min		
	23					
	24	TOC Range		4 to 50,000 ppb		
	25	TOC Accuracy	TOC Precision	+/- 2% or 0.5ppb	< 1% of RSD	
	Transmitter	26	Type		Integrated	
27		Full Span	Lower/Upper	0 ppb	50,000 ppb	
28		Calib Range	Lower/Upper	0 ppb	50,000 ppb	
29		Accuracy		same as sensor		
30		Enclosure Material	Enclosure Rating	Powder Coat Al & Molded Resin	IP-45	
31		Electrical Connection		Hard wire 100 to 240 VAC, 100VA, 50/60 Hz		
32		Analog Output	Signal Communications	(3) 4-20mA	Modbus TCP/IP	
33		Display Type		7" WVGA (800x480) Color LCD Touchscreen		
34		Manufacturer		SUEZ		
35		Model No.		M5310 C Online		
36						
Other	37	Wetted Materials		316L SS, PTFE, Quartz, CPVC (Sampler)		
	38	Calibration Stability		12 months		
	39	Interferences		Insensitive to organic heteroatoms		
	40	Ambient Temperature		5-40°C		
	41	Chloride Concentration		Oxidation limited by chloride concentrations above 500 ppm		
	42	Max Relative Humidity		0-95% noncondensing		
	43	Maximum Altitude		3,000 m (9,843 ft)		
	44	Inorganic Carbon Removal		Standard Integrated ICR Module		
	45	Inputs		One isolated binary input		
	46	Outputs		(3) isolated 4-20mA, Ethernet (Modbus TCP/IP)		
	47	Outputs		(1) USB device port, (4) dry-contact alarm		
	48	Safety Certifications		ETL conforming to UL 61010-1, CE		
	49	Dimensions		21.6"x17.7"x10.4" (54.9x45x26.5cm) (HxWxD)		
	50	Weight		16.2 kg (35.6 lbs)		
Notes	<p>Note #1: Optional Dual Stream Online Sampler.</p> <p>Note #2: 50 ppb continuous or up to 200ppb with ozone destruct kit.</p>					