



300 40062 Rev. A

M9 Online Specification

M9 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	95°C ¹	
	12	Conductivity	Min/Oper/Max	N/A	N/A	
	13	TOC	Min/Oper/Max	0.03 ppb	50,000 ppb	
Sensor	14	Type	Analysis Method	Online Integral	UV Pers/Membrane Conductivity	
	15	Analysis Modes	Online, Grab			
	16	Analysis Time	2 Minutes (4 seconds Optional Turbo Mode)			
	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 95°C ¹	2-100psig (0.14-6.89bar)	
	22	Raw Cond Rng	Max Sample Cond	N/A	N/A	
	23	Cond Accuracy	Cond Precision	N/A	N/A	
	24	TOC Range	0.03 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, 50/60hz			
	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.	M9 Online			
36						
Other	37	Wetted Materials	316L SS, PTFE, Quartz, CPVC, PVDF (Sampler)			
	38	Calibration Stability	12 months			
	39	Interferences	Insensitive to organic heteroatoms			
	40	Ambient Temperature	5-40°C			
	41	Max Relative Humidity	0-95% non-condensing			
	42	Maximum Altitude	3,000 m (9,843 ft)			
	43	Inputs	One isolated binary input			
	44	Outputs	(3) isolated 4-20mA, Ethernet (Modbus TCP/IP)			
	45	Outputs	(1) USB device port, (4) dry-contact alarm			
	46	Safety Certifications	ETL conforming to UL 61010-1, CE			
47	Dimensions	21.6"x17.7"x10.4" (54.9x45x26.5cm) (HxWxD)				
48	Weight	15.8 kg (34.9 lbs)				
Notes	<p>Options: Turbo (4 second analysis time, reduced analytical range), ICR (for waters high in inorganic carbon), DataGuard 21CFR Part 11 Electronic Data Control.</p> <p>Note #1: Sample temperatures above 60°C require optional PVDF iOS sampler.</p> <p>Note#2: 50 ppb continuous or up to 200ppb with ozone destruct kit. Not compatible with sample conductivity option.</p>					