



300 40062 Rev. C

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	
Instrument	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	
	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 instrument		
	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		Veolia WTS Analytical Instruments, Inc			
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, UKCA		
	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>					