



300 40064 Rev. C

M9 Portable Specification

M9 Portable 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					
Instrument	8	Fluid	Fluid Phase	Water	Liquid	
	9	Type	Analysis Method	Portable	UV Pers/Membrane Conductivity	
	10	Analysis Modes		Online, Grab, Optional Autosampler		
	11	Analysis Time		2 Minutes (Optional 4 Second Turbo Mode)		
	12	Instrument Flow Rate		0.5 mL/min		
	13	Inlet Connection	Connection Size	Zero Dead Volume Compression	1/16", 10-32 thread	
	14	Outlet Connection	Connection Size	Swagelok Compression	1/8"	
	15	Surface Finish	Wetted/Non Wetted	Mfg Std	Mfg Std	
	16	Ozone Compatibility ³		200 ppb		
	17	Sample Temp Rng	Sample Press Rng	5 to 95°C ¹	2-100psig (0.14-6.89bar)	
	18	Min Sample Cond Rng	Max Sample Cond Rng	0.01 µS/cm	2,000 µS/cm ²	
	19	Cond Accuracy	Cond Precision	+/- 0.005 µS/cm or 1%	< 0.25% RSD	
	20	TOC Range		0.03 to 50,000 ppb		
	21	TOC Accuracy	TOC Precision	+/- 2% or 0.5ppb	< 1% of RSD	
	22	Type		Integrated		
	23	Full Span	Lower/Upper	0 ppb	50,000 ppb	
	24	Calib Range	Lower/Upper	0 ppb	50,000 ppb	
	25	Accuracy		same as instrument		
	26	Enclosure Material	Enclosure Rating	Molded Resin	IP-21	
	27	Electrical Connection		100 to 240 VAC, 100VA, 50/60 Hz		
	28	Analog Output	Signal Communications	(3) 4-20mA	Modbus TCP/IP	
29	Display Type		WVGA Touchscreen			
30	Manufacturer		Veolia WTS Analytical Instruments, Inc			
31	Model No.		M9 Portable			
32						
Other	33	Wetted Materials		316L SS, PTFE, Quartz, PVDF, CPVC		
	34	Calibration Stability		12 months		
	35	Interferences		Insensitive to organic heteroatoms		
	36	Ambient Temperature		5-40°C		
	37	Chloride Concentration		Oxidation limited by chloride concentrations above 500 ppm		
	38	Max Relative Humidity		0-95% noncondensing		
	39	Maximum Altitude		3,000 m (9,843 ft)		
	40	Inputs		(1) binary input		
	41	Outputs		(3) isolated 4-20mA, (4) dry contact alarm		
	42	Outputs		(1) USB device port, (2) USB host port, Ethernet (Modbus TCP/IP)		
	43	Safety Certifications		ETL conforming to UL 61010-1, CE, UKCA		
	44	Dimensions		15.4"x9"x18.3" (39.5x22.9x46.4cm) (HxWxD)		
	45	Weight		9.4 kg (20.8 lbs)		
Notes	<p>Options: Integrated ICR (for waters high in inorganic carbon), DataGuard 21CFR Part 11 Electronic Data Control, Sievers Autosampler with Sievers DataPro2 software (Sievers Autosampler requires a computer), Turbo Mode (4 sec analysis), grab sample conductivity.</p> <p>Note #1: Online sample temp above 60°C requires optional PVDF iOS sampler.</p> <p>Note #2: Conductivity range for optional grab sample conductivity measurements, TOC analysis is not limited by conductivity level. OPTIONAL SAMPLE CONDUCTIVITY IS NOT AVAILABLE IN ONLINE MODE.</p> <p>Note#3: 50 ppb continuous or up to 200ppb with ozone destruct kit. Not compatible with sample conductivity option.</p>					