



300 40064 Rev. B

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 <sup>3</sup>		200 ppb	
	17	Sample Temp Rng	Sample Press Rng	5 to 95°C <sup>1</sup>	2-100psig (0.14-6.89bar)
	18	Min Sample Cond Rng	Max Sample Cond Rng	0.01 µS/cm	2,000 µS/cm <sup>2</sup>
	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		<b>SUEZ</b>		
31	Model No.		<b>M9 Portable</b>		
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		
	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>				