



300 40063 Rev. A

M9 Lab Specification

M9 Laboratory 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				
Sensor	8	Fluid	Fluid Phase	Water	Liquid
	9	Type	Analysis Method	Laboratory	UV Pers/Membrane Conductivity
	10	Analysis Modes		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 Continuous	Ozone Periodic	N/A	N/A
	17	Sample Temp Rng	Sample Press Rng	5 to 95°C	N/A
	18	Raw Sample Cond Rng	Max Sample Cond Rng	0.01 µS/cm	2,000 µS/cm ¹
19	Sample Cond Accuracy	Sample 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	
Transmitter	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 sensor	
	26	Enclosure Material	Enclosure Rating	Molded Resin	N/A
	27	Electrical Connection		100 to 240 VAC, 100VA, 50/60 Hz	
	28	Analog Output	Signal Communications	N/A	Modbus TCP/IP
	29	Display Type		7" WVGA (800x480) Color LCD Touchscreen	
	30	Manufacturer		SUEZ	
	31	Model No.		M9 Laboratory	
Other	32				
	33	Wetted Materials		316L SS, PTFE, Quartz	
	34	Calibration Stability		12 months	
	35	Interferences		Insensitive to organic heteroatoms	
	36	Ambient Temperature		5-40°C	
	37	Max Relative Humidity		0-95% non-condensing	
	38	Maximum Altitude		3,000 m (9,843 ft)	
	39	Inputs		N/A	
	40	Outputs		(1) USB device port, (3) USB host port, Ethernet (Modbus TCP/IP)	
	41	Safety Certifications		ETL conforming to UL 61010-1, CE	
	42	Dimensions		16.6"x9.7"x15.8" (42.2x24.6x40cm) (HxWxD)	
	43	Weight		9.4 kg (20.6 lbs)	
	Notes	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. Note #1: Conductivity range for optional grab sample conductivity measurements, TOC analysis is not limited by conductivity level.			