suez						M9e Online Specification
				300 40065 Rev. A		
M9e 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, 50/60 Hz		
	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.		**M9e 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	Chloride Concentration		Oxidation limited by chloride concentrations above 500 ppm		
	42	Max Relative Humidity		0-95% noncondensing		
	43	Maximum Altitude		3,000 m (9,843 ft)		
	44	Inputs		One isolated binary input		
	45	Outputs		(3) isolated 4-20mA, Ethernet (Modbus TCP/IP)		
	46	Outputs		(1) USB device port, (4) dry-contact alarm		
	47	Safety Certifications		ETL conforming to UL 61010-1, CE		
	48	Dimensions		21.6"x17.7"x10.4" (54.9x45x26.5cm) (HxWxD)		
	49	Weight		15.8 kg (34.9 lbs)		
Notes	Options: Turbo (4 second analysis time, reduced analytical range), ICR (for waters high in inorganic carbon), Pressurized iOS Sampler (optional when < 5 ppb). Note #1: Sample temperatures above 60°C require optional PVDF iOS sampler. Note#2: 50 ppb continuous or up to 200ppb with ozone destruct kit. Not compatible with sample conductivity option.					