



300 40070 Rev. B

M500 Specification

Sievers M500 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		
	9	Flow	Min/Oper/Max	50 mL/min	Liquid	
	10	Pressure	Min/Oper/Max	2psig (0.14bar)	N/A	
	11	Temp	Min/Oper/Max	1°C	100psig (6.89bar)	
	12	Conductivity	Min/Oper/Max	0.01 µS/cm	95°C	
	13	TOC	Min/Oper/Max	0.03 ppb	800 µS/cm	
Instrument	14	Type	Analysis Method	Online Integral	UV/MC	
	15	Analysis Modes		Grab, Online, Online (Timed), Online (Averaged)		
	16	Analysis Time ¹		3 minutes (Online 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		300 ppb		
	21	Sample Temp Rng	Sample Press Rng	1 to 95°C	2-100psig (0.14-6.89bar)	
	22	Raw Cond Rng	Max Sample Cond ³	0.01 to 800 µS/cm	800 µS/cm	
	23	Cond Accuracy	Cond Precision	0.005 µS/cm or 1%, whichever is greater	≤ 1% RSD	
	24	TOC Range		0.03 to 2,500 ppb		
	25	TOC Accuracy	TOC Precision	±5% or ±0.1ppb whichever is greater	1% or 0.03ppb whichever is greater	
	26	Type		Integrated		
	27	Full Span	Lower/Upper	0 ppb	2,500 ppb	
	28	Calib Range	Lower/Upper	0 ppb	2,500 ppb	
	29	Accuracy		(same as instrument)		
	30	Enclosure Material	Enclosure Rating	Powder Coated Aluminum	IP-55	
	31	Electrical Connection		Hard wire 100 to 240 VAC, 70W, 50/60 Hz		
	32	Analog Output	Signal Communications ⁴	3	RS232, USB, Ethernet	
	33	Display Type		Backlit 10.1", 1280 x 800, touchscreen display		
	34	Manufacturer		SUEZ		
	35	Model No.		M500		
	36					
Other	37	pH Range		5.5 to 8.0		
	38	Calibration Stability		12 months		
	39	Interferences		Insensitive to organic heteroatoms		
	40	Wetted Materials		316L SS, 316 SS, PCTFE, PTFE, PVDF (Sampler)		
	41	Ambient Temperature		5-40°C		
	42	Max Relative Humidity		95% non-condensing		
	43	Maximum Altitude		3,000 m (9,843 ft)		
	44	Inputs		Two isolated binary inputs		
	45	Outputs		(1) Modbus, (1) Profinet, (3) isolated 4-20mA, (1) RS232, (1) USB, (4) alarm		
	47	Safety Certifications		ETL conforming to UL 61010-1, CE		
	48	Dimensions		H: 43.5 cm (17.1 in) W: 55.9 cm (22.0 in) D: 28.7 cm (11.3 in)		
	49	Weight		13.6 kg (30 lbs) Standard iOS, 16.3 kg (36 lb) Super iOS		
	Notes	<p>Note#1: Base model analysis time is six minutes for continuous online measurement.</p> <p>Note#2: Up to 300 ppb O3 continuously with ozone destruct kit. Not compatible with sample conductivity option.</p> <p>Note#3: Maximum sample conductivity for TOC accuracy is 800µS/cm.</p> <p>Note#4: Optional Wireless (Region Dependent), Profibus</p>				