



300 40052 Rev. A

500 RL Specification

500 RL 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	2psig (0.14bar)	100psig (6.89bar)	
	11	Temp	Min/Oper/Max	1°C	95°C	
	12	Conductivity	Min/Oper/Max	0.055 µS/cm	25 µS/cm	
	13	TOC	Min/Oper/Max	0.03 ppb	2,500 ppb	
Sensor	14	Type	Analysis Method	Online Integral	UV/MC	
	15	Analysis Modes				Grab, Online, Online (Timed), Online (Averaged)
	16	Analysis Time				6 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 <sup>1</sup>		200 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	0.01 to 35 µS/cm	25 µS/cm	
	23	Cond Accuracy	Cond Precision	+/- 1% ≥ 0.25 µS/cm <sup>2</sup>	< 0.25% RSD	
	24	TOC Range				0.03 to 2,500 ppb
25	TOC Accuracy	TOC Precision	±5%	±0.03 ppb ≤ 50 ppb; ±1% > 50 ppb		
Transmitter	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 sensor)
	30	Enclosure Material	Enclosure Rating	Powder Coated Steel	IP-45	
	31	Electrical Connection				Hard wire 100 to 240 VAC, 100W, 50/60 Hz
	32	Analog Output	Signal Communications	3	RS232, USB	
	33	Display Type				QVGA Touchscreen
	34	Manufacturer				<b>SUEZ</b>
	35	Model No.				<b>500RL</b>
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, PTFE, PVDF (Sampler)
	41	Ambient Temperature				10-40°C
	42	Max Relative Humidity				95% non-condensing
	43	Maximum Altitude				3,000 m (9,843 ft)
	44	Inputs				One isolated binary input
	45	Outputs				(1) Modbus/Ethernet, (3) isolated 4-20mA, (1) RS232
	46	Outputs				(1) USB, (1) printer, (4) alarm
47	Safety Certifications				ETL conforming to UL 61010-1, CE	
48	Dimensions				16.5"x19"x10.8" (41.9x48.3x27.4cm) (HxWxD)	
49	Weight				16.9 kg (37 lbs)	
Notes	<p>Note#1: 50 ppb continuous or up to 200ppb with ozone destruct kit. Not compatible with sample conductivity option.          Note #2: Cond Accuracy ±0.005 µS/cm ≤ 0.25 µS/cm.</p>					