











300 40055 Rev. A

CheckPoint Specification

CheckPoint Online/Portable Total Organic Carbon (TOC) Sensor

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		Liquid	
	9	Flow	Min/Oper/Max	60 mL/min	N/A	
	10	Pressure	Min/Oper/Max	15 psig (1.0 bar) <sup>1</sup>	100 psig (6.9 bar)	
	11	Temp	Min/Oper/Max	10°C	90°C	
	12	Conductivity	Min/Oper/Max	0.055 µS/cm	113 µS/cm	
	13	TOC	Min/Oper/Max	0.21 ppb C	1,000 ppb C	
Sensor	14	Type	Analysis Method	Portable Integral	UV/DC	
	15	Analysis Modes		Online (average or timed); Grab <sup>2</sup>		
	16	Analysis Time		15 seconds - 8 hours (Online); 10 minutes (Grab)		
	17	Inlet Connection	Connection Size	Swagelok Compression	1/8 inch	
	18	Outlet Connection	Connection Size	Barbed	1/16 inch	
	19	Surface Finish	Wetted/Non Wetted	Mfg Std	Mfg Std	
	20	Ozone Continuous	Ozone Periodic	50 ppb	200 ppb for 2 hours/day	
	21	Sample Temp Rng	Sample Press Rng	10 to 90°C	15-100 psig (1.0-6.9 bar)	
	22	Raw Cond Rng	Max Sample Cond	0.023 to 150 µS/cm	1.4 µS/cm <sup>3</sup>	
	23	Cond Accuracy	Cond Precision	± 2%	± 0.5% RSD	
	24	TOC Range		0.21 to 1,000 ppb		
	25	TOC Accuracy	TOC Precision	± 5% <sup>4</sup>	< 1% RSD or 0.21 ppb (online) <sup>5</sup>	
Transmitter	26	Type		Portable Integrated		
	27	Full Span	Lower/Upper	0 ppb	1,000 ppb	
	28	Calib Range	Lower/Upper	0 ppb	1,000 ppb	
	29	Accuracy (same as sensor)				
	30	Enclosure Material	Enclosure Rating	Powder Coated Alum	IP-23	
	31	Electrical Connection		100 to 240 ±10% VAC, 60W, 50/60 Hz		
	32					
	33	Display Type		LCD Display		
	34	Manufacturer		SUEZ		
	35	Model No.		CheckPoint (pharma version)		
Other	37	Ozone Compatability		Ozone 50 ppb continuous or 200 ppb 2 hr/day		
	38	Calibration Stability		6 months		
	39	Wetted Materials		316L SS, PTFE, Quartz		
	40	Ambient Temperature		10-55°C		
	41	Max Relative Humidity		90% non-condensing		
	42	Maximum Altitude		3,000 m (9,843 ft)		
	43	Input		(1) binary input (with optional I/O board)		
	44	Outputs		(3) optional isolated 4-20mA		
	45	Outputs		(1) USB, (2) optional alarms		
	46	Safety Certifications		CE, ETL listed (UL Std 61010-1), CSA C22.2 No. 61010-1		
	47	Dimensions		10"x12"x 6" (25.4x30.5x15.2cm) (HxWxD) <sup>6</sup>		
48	Weight		2.9 kg (6.4 lbs) (Sensor only); 3.5 kg (7.7 lbs) (with Vial Sampling Kit)			
Notes	<p>#1: Sample pressures of -0.069 - 0.55 bar (-1.0-8.0 psig) or 0.5mL/min flow require Low Pressure Sampling Kit;</p> <p>#2: Grab Analysis Mode requires Vial Sampling Kit;</p> <p>#3: Sample water quality with a conductivity &gt;1.4 µS/cm may result in reduced TOC accuracy;</p> <p>#4: Accuracy specification for 500ppb sucrose;</p> <p>#5: TOC Precision (grab) ≤ 3.0% at 500 ppb;</p> <p>#6: Dimensions (with Vial Sampling Kit): 10"x18"x 6" (25.4x45.7x15.2cm) (HxWxD).</p>					