ENGINEERING SPECIFICATIONS

TOC Systems Solids Benchtop TOC Analyzer

Model/Name	TOC Systems Solids Benchtop TOC Analyzer	Notes
		NOLES
	High Temperature Combustion and Non-Dispersive	
Analysis Method	Infrared (NDIR) CO ₂ Detection	
Analytas Maasurad	Total Organic Carbon; Total Carbon; Total Inorganic Carbon; in Solids, Slurries, Sludge and Liquids	
Analytes Measured		
	Dual NDIRs (solid state; no moving parts; computer-	
	controlled; non-reflective sample cell-impervious to	See NDIR vs
Detector Type (CO ₂)	corrosion and guaranteed for 5 years)	Conductivity Chart
	Manually position sample on Injector for Automatic	
Sample Handling	sample injection into reactor	
Maaauramant		
Measurement Specifications		
specifications		
Measurement Range (mg) C	0.1 mg - to % Levels	Operator
		Configurable
Accuracy/Repeatability (%)	+/-2	
Carrier Gas Flow (mL/min.)	300 mL/max	
	CO ₂ & HC - FREE AIR, OR O ₂	Oxygen preferred
	15 +/- 2 PSI	
Average Analysis/Response		
Time (minutes)	5-7 minutes	
Reactors	Dual Catalytic or Non-Catalytic Reactors	
Temperature Ranges	100°C (212°F) to 1,000°C (1832°F)	Operator
		adjustable, each
		furnace
Outputs		
Outputs	RS-232	
Display & Data storage	PC (external)	
Sample Requirements		
Sample Mass (g)	5 (max)	

UTILITIES Required		
Power	100/240 VAC	
	50/60 HZ.	
	15 Amp Service	
Carrier Gas	$CO_2 \& HC$ - free air, O_2 (300 mL/minute-max.);	Oxygen preferred
	15 +/- 2 PSI	
Reagents	Hydrochloric Acid	
	Phosphoric Acid	
	Calibration Standards	
	D.I. Water	
Sample Drain	gravity/air break	
Environment	Operating Temperature: 10° - 50°C	
	50° - 122°F	
Construction		
Enclosure	Epoxy Powder Coated Aluminum	
Dimensions (UV/M/VD)	$(11 \times 12 \times 64 \text{ (cm)})$	
Dimensions (HxWxD)	41 x 43 x 64 (cm) 16 x 17 x 25 (in)	
Mounting	Benchtop	
Weight	18 Kg	
	40 Lbs	
Area Classification	General Purpose	
Conformity	Complying with all International Standards, such as:	
	DIN-EN 1484, DIN-ENV 12260, DIN 38409-H3, ISO 8245,	
	Standard Method 5310B, Standard Method 5310C,	
	Standard Method 5310D, USEPA 415, USEPA 9060, ASTM D5173, EN1337	

(All performance specifications have been verified in a controlled laboratory environment. Actual field performance may vary with application measuring range and detection limits depend on the method, injection volume, vessel purity, chemicals and gases used, and the qualification of the operators.)