TECHNICAL BULLETIN

NUMBER 2018 - 020

Date: **December 2022**
Author: **Justin Dickerman, updated by Erin O'Donnell**
Subject: **PeCOD® L50 Technical and General Specifications**

ANALYSIS DATA	
Oxidation process	Photocatalytic oxidation
Catalyst	Titanium Dioxide (TiO_2)
Calculated Method Detection Limit (MDL)	0.7ppm*
Reproducibility	≤+/- 10%
Light source	UV LED (λ = 365nm)

*Based on a reporting limit of 1.0ppm in Advanced Blue range, precise mode via manual analysis on a stand-alone system as per ASTM D8084-17. MDL calculation procedure was obtained from US EPA 40 CFR Appendix B to Part 136 - Definition and Procedure for the Determination of the Method Detection Limit. Results may vary depending on laboratory practices and normal instrument variation.

GENERAL SPECIFICATIONS	
Construction	Powder-Coated Steel
Dimensions (approximate W x L x H)	280mm x 210mm x 260mm
Weight	< 7 kgs
Security	4 digit Pin (optional)
Parameter(s)	COD (unit of measurement: choice of ppm or mg/L) BOD (ppm or mg/L)
Measurement	Dilution ≤ 12,000 ppm

ELECTRICAL AND STANDARDS CONFORMITY	
Power Requirements	100 V to 240 V AC / 45 to 65 Hz INPUT 24V DC X 3 Amp OUTPUT Adapter
Current Consumption	2.0 A (maximum)
Protection Class	Continuous short circuit protection. CEC Level IV compliant. UL compliant
EMC Emission and Noise Immunity	EN61326-1:2006 FCC Part 15 Subparts A and B
Certification	CE. FCC
Environmental conditions	Ambient Operating Temperature: 10 to 30 °C
	Storage Temperature: 5 to 40 °C
	Relative Humidity: maximum 90% non-condensing

DATA DISPLAY, INPUTS AND OUTPUTS	
Display	4 x 20 character
Keypad	Splash resistant touch user interface
Data Presentation	Alpha Numeric
Data Logging	Up to 200,000 measurements, events and faults
Fault Monitoring	Error Code Reporting of Faulty Conditions
Computer Interface	USB for Data and Control