

L100/F100

PeCOD™ LABORATORY OR FIELD COD ANALYSIS - L100/F100

THE AQUA DIAGNOSTIC PECOD™ COD ANALYSERS PROVIDE REAL-TIME WATER QUALITY MONITORING THAT IS RELIABLE, SENSITIVE, ACCURATE, REPRODUCIBLE AND EASY TO USE.

REAL USER BENEFITS

The PeCOD™ analysers accurately detect COD in samples from a variety of sources and overcome many of the problems encountered by existing COD methods.

The PeCOD™ analysers deliver real benefits to users through;

- Real time results (< 5mins) to overcome the problems of time delays encountered by chemical oxidation methods
- Absolute COD measurement avoiding costly and time consuming regular calibration
- Complete oxidation leading to high accuracy and high reproducibility minimizing matrix variation problems
- Direct signal acquisition resulting in high sensitivity and wide linear range
- Equivalent BOD
- No Hazardous reagents
- Light weight < 2kg and rugged making it easy to transport
- Splash resistant touch pad
- Optional battery pack for field use
- Identical technologies across platforms (laboratory and on-line unit) ensures consistency of results when switching between the two
- Unmatched ppb sensitivity (0.2 mg/l) and reproducibility (RSD=±3%).



INNOVATIVE TECHNIQUE

The patented PeCOD™ technology provides a unique nanotechnology-based photoelectrochemical technique capable of determining COD in natural and wastewater samples.

The PeCOD™ approach measures photocurrent charge originating from the oxidation of organic species contained in a sample to quantify COD. This means the end user obtains a real measurement of organic pollution, not an inferred one.

The core of the technology is the strong oxidation power which ensures complete oxidation of all oxidisable organic species in a simple and rapid fashion.



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ANALYSIS DATA

Analytical Detection Limit	0.2ppm
Linear Working Range (without dilution)	0.2 to 350ppm
Reproducibility	+/- 3%
Detection Time	30 Seconds to 300 Seconds
Test Calibrant	Potassium Hydrogen Phthalate (optional)
Reagents	Electrolyte

GENERAL SPECIFICATIONS

DETAILS	LABORATORY UNIT L100/FIELD UNIT F100
Construction	Plastic
Dimensions (WxHxD)	235x237x375mm
Weight	<2kg
Mounting	Bench Top
Security	Password Protection
Parameter(s)	COD/Equivalent BOD
Measurement	Replicate

ELECTRICAL AND STANDARDS CONFORMITY

DETAILS	LABORATORY UNIT L100/FIELD UNIT F100
Power Requirements	100V to 240V AC/45 to 65Hz
Current Consumption	1.0 A (maximum)
Enclosure	IP54
Protection Class	EN61010-1
EMC Emission	EN50081-1
EMC Noise Immunity	EN50082-2
Certification	CE, UL

DATA DISPLAY, INPUTS AND OUTPUTS

DETAILS	LABORATORY UNIT L100/FIELD UNIT F100
Display	4 x 20 Character
Touch Pad	Capacitive Touch User Interface
Data Presentation	Alpha Numeric
Data Logging	Up to 200,000 measurements, event and fault
Fault Monitoring	Air in line, system conditions
Relay Outputs	Not Applicable
Analog Outputs	Not Applicable
Computer Interface	USB Data and Control* (<i>*software option</i>)

Final specifications and performance of the product may vary from those reported above. Instrument specifications can change without notice. The data and the images on this document pertaining to appearance, service, measurements, weight, power and reagent consumption, test times and maintenance requirements are approximate descriptions and for information purposes only. Please contact Aqua Diagnostic Pty Ltd for further information.

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