

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.



 **AQUADIAGNOSTIC**

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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

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|--------------------|--------------------------------------|
| 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

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|---------------------|--------------------------------------|
| 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

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|--------------------|---|
| 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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