

P100

PeCOD™ ON-LINE COD ANALYSIS - P100

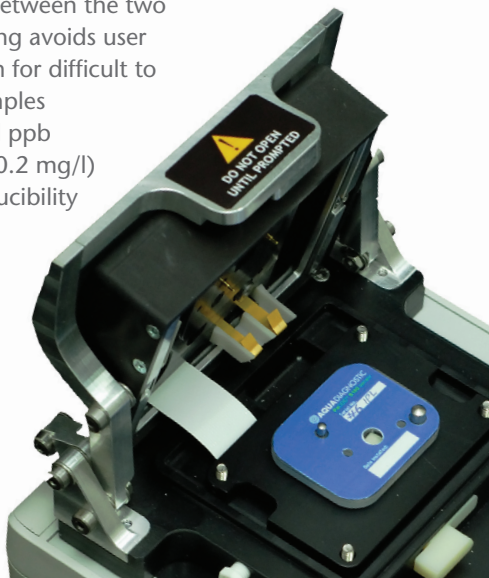
THE AQUA DIAGNOSTIC PeCOD™ COD ANALYSERS PROVIDE REAL-TIME WATER QUALITY MONITORING THAT IS RELIABLE, SENSITIVE, ACCURATE, REPRODUCIBLE AND EASY TO USE.

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
- Small footprint & light weight < 3.5kg makes it ideal for mounting on-line
- Splash resistant keypad
- Identical technologies across platforms (laboratory and on line unit) ensures consistency of results when switching between the two
- In line mixing avoids user intervention for difficult to analyse samples
- 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	ON-LINE UNIT P100
Construction	ABS
Dimensions (WxHxD)	215x340x225mm
Weight	<3.5kg
Mounting	Wall Mountable
Security	Lockable Cabinet
Parameter(s)	COD/Equivalent BOD
Measurement	Dilution ≤ 15,000ppm, Auto Ranging for Sample <350ppm

ELECTRICAL AND STANDARDS CONFORMITY

DETAILS	ON-LINE UNIT P100
Power Requirements	100V to 240V AC/45 to 65Hz
Current Consumption	1.0 A (maximum)
Enclosure	IP55 to EN60529
Protection Class	EN61010-1
EMC Emission	EN50081-1
EMC Noise Immunity	EN50082-2
Certification	CE, UL

DATA DISPLAY, INPUTS AND OUTPUTS

DETAILS	ON-LINE UNIT P100
Display	4 x 20 Character
Keypad	Splash Resistant Membrane
Data Presentation	Alpha Numeric
Data Logging	Up to 200,000 measurements, event and fault
Fault Monitoring	Air in line, low reagent, line blockage, system conditions
Relay Outputs	Upper and lower set points and fault indication
Analog Outputs	4-20mA
Computer Interface	USB Data and Control

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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