

Aqua Diagnostic Launches its Revolutionary Range of PeCOD™ COD Analysers

Aqua Diagnostic announces a revolutionary green technology for COD Analysis (Chemical Oxygen Demand), capable of real-time accurate and sensitive (sub-ppm) COD analysis.

The PeCOD™ technology represents a major step forward in COD analysis, on multiple levels. **GREEN**; no hazardous or toxic chemicals are required, only an electrolyte solution, unlike the standard dichromate method. **FAST**; analysis times can be determined in minutes not hours, thus providing the economic benefit of real-time process control and environmental monitoring.

SENSITIVE; analysis to sub- ppm levels. **ACCURATE**; analysis of a wide range of organic species including many traditionally 'recalcitrant' species such as primary alcohols and carboxy acids which are frequently underestimated by traditional COD analysis techniques. **BOD**; can be directly correlated to the PeCOD™ COD results. **VERSATILE**; a broad spectrum of matrix streams including seawater can be easily analysed.

PeCOD™ COD analysers are available in three different models purpose designed for **Laboratory** use, **Field Portable** analysis, and **Online COD** monitoring. All systems incorporate the same core COD analysis module to ensure identical performance between models.

The simplicity and speed of the technique is what allows it to be fully automated in a self-contained online system. The system comes pre-configured in a single weatherproof stainless steel enclosure that houses the sampling, analysis, and telemetry modules, as well as electrolyte solution reservoirs. It can be configured to monitor multiple sample streams.

This has significant benefits to any industry involved in **WASTEWATER TREATMENT**, or using **COOLANT WATER** or **WATER FEEDSTOCK** to a manufacturing process; "Real time Monitoring for Real Time Savings". Further information is available at www.aquadiagnostic.com .

The PeCOD™ technology is based on a patented photoelectrochemical process. The core of the technology is the ability of the UV activated TiO₂ (titanium dioxide) nano-particulate photocatalyst to create a high oxidation potential. This ensures complete oxidation of all oxidisable organic species. The direct capture and measurement of the resultant photocurrent means that a direct measurement of the oxidation is being made.

Aqua Diagnostic is an Australian company, currently establishing a global network of authorised representatives to service the world market.