APC Group

environmental safety equipment

Environmental - Safety and Gas Monitoring - Equipment and Services

2010

NEWS UPDATE

Issue 3

On offer this issue:

- GA/GEM/BIOGAS upgrades
- Crude Oil Article
- Piped Medical Gases Verification

APC & GE

Panametrics

Showcase

(See details below)

GA 3000 Online Gas Analysis

Geotech

Building on already field-proven, robust gas analysis technology, the GA 3000 offers cost-effective online monitoring with local data outputs.

Applications include Biogas Projects, Waste Water Treatment, Anaerobic Digestion and Landfill Gas Monitoring.

Benefits

- Accurate gas analysis
- Easy to install
- Compact, self contained system
- Field—proven, robust equipment

Features

- CH_4 CO_2, O_2 measurement
- H_2S measurement 0-5000ppm (optional)
- ATEX certified
- Readings displayed on screen
- 4-20mA outputs for each gas
- Alarm relays (user selectable)

From 1/6/2010 ALL NEW Geotech analysers (GA/GEM/Biogas) have new customer led improvements incorporated. These have been to help with ease of use out on site and to help reduce yearly cost of ownership.

Customer feedback asked for :

- A stronger pump offering 550ml/min typically and can operate against ~375 mbar with flow rate of approx 80ml/min. On start up the sample and purge time can be reduced.
- Easy identification of connections....Connectors and tubes are now colour coded
- A more comfortable carry strap—wider and more padded
- Simpler water trap—trap now simply fits in-line with the sample tube

When returning your analysers for their routine service you can choose to upgrade if you wish

Ultrasonic Flow Meters, Moisture Meters & Analysers Showcase—26th Aug 2010

APC in conjunction with GE Sensing/Panametrics have Ivan Tew—an expert in the field of Panametrics, visiting NZ and are showcasing our range of Ultrasonic, Moisture, Flow Meters and Analysers in LNG, NG and other applications.

We invite any interested parties to join Dave, Carlo and Ivan

Where : Brougham Heights Motel, 54 Brougham St, New Plymouth

When : Thursday 26th August 2010 at 3.30pm (duration approx 2 hours)

If you would like to join us please email : carlo@apc.co.nz

New Plymouth

26 August 2010

3.30pm

N2O 0-1000ppm Gas Analysers For Piped Medical Gas Verification & Medical Staff Safety

Geotech

The portable gas analysers, the **G200** is designed to safety check background and breathing zone levels of N2O (0-1000ppm) in medical applications providing accurate verification of exposure limits . Can be used as a dual purpose analyser either for background readings or as a personal analyser with TWA readings.

Applications : Operating Theatres, Dental Practices, Vet Clinics, X-RAY

- TWA,
- EH40 Occupational Exposure Limit
- Leak Detection
- Data download for graphing & reporting

The portable **G210** offers accurate measurement and verification of the quality of piped Nitrous Oxide (N2O) and Oxygen (O2) gases in hospital operating theatres.

- 4 gases measured
- Easy user calibration
- Fast verification og gas quality
- Identify contaminants CO &

Applications : Hospital Piped Gases, Leak Detection

Read More

APC are exhibiting at a collaborative event this year between the Fire Protection Association of NZ and the Institution of Fire Engineers (NZ Branch)

The Institution of Fire Engineers New Zealand Branch

November 3rd & 4th 2010 - Christchurch Convention Centre

Check out this link for further details :
http://www.fireprotection.org.nz/firenz10/Event/event.html

How is Crude Oil measured ??

"Crude oil" is a catch-all term for unprocessed, natural petroleum. There are many different classes of crude oil, and the chemical composition of each source is slightly different. Not all crude oil in water is a result of a man-made spill; many water bodies have small amounts of seepage. One source estimates that each year 500,000 barrels of oil seep into the Gulf of Mexico from nearly 1,000 seepage points. (this prior to BP disaster.)

As we are all acutely aware through witnessing this recent disaster unravel before our eyes on a daily basis—large concentrations of crude oil can be dangerous -if not lethal to various aquatic life forms: most notably, birds- the pelicans have become mired in heavy oil. Fish are often able to swim away . Because of the widely varying chemical compositions, it is difficult to estimate the toxicity of low concentrations of crude oil smaller life forms.

However one study lists the acute toxicity levels (96 LC50s) as :

Larvae and eggs	0.1 to 100mg/l
Pelagic crustaceans (shrimp)	100 to 40,000 mg/l
Benthic crustaceans (crayfish)	56mg/l
Bivalves (oysters, muscles)	100 to 100,000mg/l
Fish	88 to 18,000mg/l and

Changes in the long-term crude-oil trends can signal the need for more detailed chemical study of the water and its contamination sources.

Read More

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- Questions or comments? ■ Email us at apc.co.nz or call 64 9 827 6001

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