

TOGETHER

ECOTECH'S MAGAZINE ABOUT ENVIRONMENTAL MONITORING

2019 Issue 7

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TOGETHER WE CREATE SOLUTIONS
THAT SHAPE THE FUTURE



Location Location Location! — Boots on the Ground in Bowen, North Queensland

A portable ECOTECH Air Quality Monitoring System (AQMS) suitable for a wide range of weather conditions, including the heat of Far North Queensland (FNQ).

In February 2019, ECOTECH opened an office in Bowen, North Queensland, Australia. Geographically situated midway between Townsville and Mackay, the Bowen team is perfectly placed to deliver local Operations & Maintenance (O&M) and other rapid response technical services to customers across North Queensland.

At 1.9 million km^2 in area, the state of Queensland is vast. So vast, it's not always time and cost effective for ECOTECH to mobilise a technician, all the way from its Brisbane office, to service environmental monitoring instruments and stations located 1000+ km north. For that reason, ECOTECH now has a permanent team based in Bowen, North Queensland.

For the first time, ECOTECH customers in and around the Bowen area, including Townsville and Mackay, can receive local service. This means increased time and response benefits that previously were not possible.

Start-to-finish operation & maintenance in less time

Field Service Technician, Freddie Brand, is the boots on the ground in Bowen, with more than 10 years environmental monitoring field experience. A key part of Freddie's role is to perform general monthly routine checks, as well as the operation and maintenance of air quality stations across multiple sites from start to finish.

"ECOTECH technicians can remotely check each monitoring station, to verify that there are no faults or problems. And when the situation demands it, our technicians have the experience and expertise to check each station and fix issues quickly in person. That's the key technical advantage of having our people local – Rapid response and better service for our customers in North Queensland," said Chris White, Eastern Branch Operations Manager.



Local expertise: North Queensland ECOTECH Field Service Technician, Freddie Brand, is based in Bowen.

ECOTECH localisation brings cost savings to customers

Working closely for over 40 years with local industries such as ports and mining, ECOTECH fully understands its customer's need to comply with

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> "When the situation demands it, our technicians have the experience and expertise to check each station and fix issues quickly in person."

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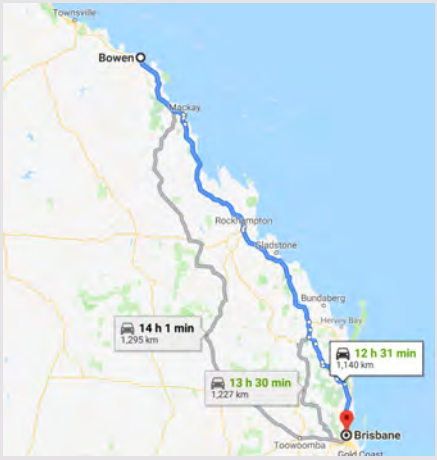
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regulatory requirements to monitor environmental pollutants.

As part of the service, an automated alert can be sent from the monitoring station if the station goes offline or predetermined air quality threshold levels are reached.

"When we receive an alarm, I can remotely log into the system and investigate. And because I'm just around the corner, whether it's a repair or routine maintenance, I can quickly get to site and take action if needed," explained Freddie.

"That's the key technical advantage of having our people local - Rapid response and better service for our customers in North Queensland."



Bowen in relation to Brisbane, QLD.
Image courtesy of Google Maps

"Since we don't have to add the extra time and cost to get to site [from Brisbane], this allows us to be more time and cost efficient for our customers. A win-win for ECOTECH customers in North Queensland."

For more information about how ECOTECH can help simplify environmental monitoring and increase service delivery levels in North Queensland, contact Chris White, ECOTECH Eastern Branch Operations Manager at email@ecotech.com



OPEN SOPRA STERIA of Lyon & ACOEM – A Faithful Partnership

Since its creation in 2015, the OPEN SOPRA STERIA of Lyon has had the ambition to become an unmissable meeting on the French and European circuit of tennis.

For the third year in a row, ACOEM supported this ambitious sports project, and was proud to participate in the success of the Lyon event. ACOEM's continuation of support through this event is based on the importance of raising public awareness of monitoring environmental parameters, such as noise and air pollution.

Through this partnership, ACOEM demonstrates commitment to the values of this tournament: proximity, passion, sharing and desire to work together with the next generation of young talent to create solutions that shape the future.

The tournament took place from 10-16 June 2019 at the Tennis Club of Lyon.

For more information, visit www.opensoprasteriadelyon.com/partenaires

> "ACOEM's support of this event is based on the importance of raising public awareness of monitoring environmental parameters, such as noise and air pollution."



New Serinus® Firmware Update Makes Gas Analyser Configuration Faster & Easier

Pictured: Serinus® 40 Oxides of Nitrogen analyser.

ECOTECH's latest firmware update for the Serinus® range of gas analysers includes a number of key improvements and innovations that make using the instrument easier and more environmentally friendly.

Customise your settings from any computer

The biggest change is that customers can now configure and customise point / sequence definitions using any computer's text editor (like Notepad or WordPad) on text files that are stored on the instrument's USB. Previously, all changes had to be keyed in on the keypad located on the front of the Serinus® instrument.

Using text files makes support and troubleshooting simpler and configuration human-readable. Sharing settings across multiple Serinus® instruments is now significantly easier, with the need to key in the same configuration on different instruments now eliminated.

Lights are on only when you're home

A simple but effective energy saver, the instrument's backlight screen can now be set to "working days" so the display stays illuminated only from 7:00 am to 7:00 pm, then automatically switching off after hours.

Some of the key changes include:

- Configuration and point / sequence definitions are now stored in text files. This allows for easier support and troubleshooting by making the system configuration human-readable
- Changed internal pump voltage limits to accommodate new pumps
- Single gas mode on the Serinus® 40 now allows scheduling backgrounds, similar to other instruments that measure a single gas
- Serinus® now allows separate periods for calibration data logging and averaging. This is useful if the calibration process is shorter than the measurement logging or average period.

We speak your language

We live in a diverse and multicultural world. French has now been added to Simplified Chinese, Russian, English and other languages supported by Serinus® gas analysers.

Investing in research and development to continuously improve environmental monitoring instruments is part of ECOTECH's cultural DNA. Regular updates to Serinus® firmware is one example of this commitment.

Read the full list of firmware update features and download the new Serinus® firmware update directly from the ECOTECH website at www.ecotech.com/firmware

"Sharing settings across multiple Serinus® instruments is now significantly easier, with the need to key in the same configuration on different instruments now eliminated."



Relationship Spanning Decades Works Continuously to Improve Air Quality in Cyprus

Cyprus is the first country outside Australia to use the Congrego® Data Logger.

About Medisell: Established in 1983, Medisell is the leading supplier for laboratory supplies in Cyprus.

www.medisell.com.cy

When it comes to enduring relationships between distributors and their customers, the 20+ year history between Medisell (ECOTECH's exclusive distributor in Cyprus) and the DLI (Cyprus' Air Quality Competent Authority) is the perfect example. Cyprus recently became the first country in the world outside Australia to start using Congrego® – ECOTECH's next generation data logger designed specifically for air quality monitoring.

Medisell was one of ECOTECH's first international distributors and the relationship between the two companies has grown stronger over the decades.

Medisell supplies, maintains and supports air pollution monitoring equipment that measures and analyses atmospheric parameters. Its customers include the UN, the Government of Cyprus and the University of Stuttgart for various air pollution monitoring studies and projects.

It has also worked with the Ministries of Health, Labour and Agriculture and private laboratories all over Cyprus, helping to improve the region's air quality.

Protecting Cyprus' air quality for more than 20 years

In the 1990s Medisell began providing the DLI with its first ECOTECH gas analysers – the 9800 series and over the ensuing years, DLI has commissioned ECOTECH analysers, Airodis™ software and WinAQMS™ data loggers. It has also upgraded a number of monitoring stations with Serinus® analysers.

Thanks to Medisell, DLI became the first international customer to purchase and commission the Congrego® data logger – ECOTECH's next generation data control and logging hardware / software solution, specifically designed for air quality and continuous emission systems. DLI installed the first of six Congrego® loggers in December 2018. The next five units will be installed across all DLI monitoring stations in the near-future.



Not all data loggers are created equal – A next generation total data control and logging hardware / software solution for air quality and continuous emission systems, Congrego® is engineered from the ground up to achieve accurate, reliable, real-time data logging specifically for ambient air and continuous emission monitoring systems.

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> "We have come to rely on [ECOTECH's] precision instruments and software, and our customers value having access to the best air quality monitoring equipment on the market."

Charalambos Orthodoxou
Director
Medisell

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medisell
COMPANY LIMITED

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"Medisell not only sells and maintains ECOTECH equipment, but as an important partner, they're also instrumental in beta testing of new equipment," said Liz Edwards, ECOTECH International Sales Executive.

"The close working relationship we share is mutually beneficial and Medisell has, and continues to provide essential feedback to ECOTECH's Research & Development team on Congrego® and other products," she added.

Precision air quality monitoring instruments – the perfect solution

According to Medisell Director, Charalambos Orthodoxou, "Working with ECOTECH for so many years, we have come to rely on its precision instruments and software, and we know that our customers value having access to the best air quality monitoring equipment on the market."

"Congrego® is the perfect solution for the DLI. It took us less than an hour to set up, is fast and straightforward, with a highly intuitive user-interface which we are excited about."

For more information about Congrego® please contact ECOTECH at email@ecotech.com or visit www.ecotech.com/congrego

"Congrego® is the perfect solution for the DLI. It took us less than an hour to set up, is fast and straightforward, with a highly intuitive user-interface."



First NATA Accredited 01dB Calibration, Service & Repair Centre in Australasia Opens in Melbourne

ECOTECH's 01dB Calibration, Service & Repair Centre has received its full NATA certification as an ISO 17025 compliant laboratory.

Located at ECOTECH's headquarters in Melbourne, the centre opened in October 2018. It is the first NATA accredited 01dB sound level meter instrument calibration, service & repair centre in the world, outside France.

The 01dB Calibration, Service & Repair (CSR) Centre was established to meet the growing needs of 01dB customers in Asian and Australian markets.

Previously, all 01dB sound level meters had to be sent to France for calibration, service and repairs, which required long lead times and meant that customers had to forgo noise monitoring capabilities during that time.

ECOTECH's new NATA accredited 01dB instrument Calibration, Service & Repair Centre in Melbourne is a one-stop shop for 01dB in Australasia.

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NATA accreditation as an added guarantee of quality & service

"We've listened to our customers and together with our support team in Asia, have worked closely with ECOTECH to create this new hub for 01dB calibration, service and repair in Australasia," commented Patrice Pischedda, ACOEM Asia Managing Director & 01dB noise monitoring expert.

"With a 7-10 day turnaround, our Melbourne-based 01dB Calibration, Service & Repair Centre delivers globally recognised NATA accredited services at competitive prices, saving 01dB customers valuable time and money."

> "The purpose-built laboratory was created to meet customer demand for ISO 17025 compliance and shorter servicing times [of 01dB equipment in Australasia]."



Nassem Turquieh, Senior ECOTECH Service & Calibration Technician, undertook extensive 01dB training prior to the CSR Centre opening.

A one-stop shop for 01dB, servicing the Asian & Australian markets

"Another key benefit of the new Calibration, Service & Repair Centre is that it is the only laboratory that provides 01dB equipment software and firmware upgrades in Australasia, so all hardware and software repairs and

services can be conducted at one time, in one location," said Horacio Viana, ECOTECH Customer Services Manager.

"Feedback has been extremely positive, and we're delighted to lift the level of service 01dB and ECOTECH customers can now expect," he added.

ECOTECH & 01dB – working together to solve global environmental problems

The purpose-built laboratory was created to meet customer demand for ISO 17025 compliance and shorter servicing times. It was also a natural step based on 01dB's close working relationship with ECOTECH.

To ensure accuracy and precision of all processes, Naseem Turquieh, Senior ECOTECH Service & Calibration Technician travelled to France to undertake extensive training prior to the CSR Centre's opening.

"The training I received in France provided an added layer of detail regarding every aspect of equipment calibration, service and repair, enhancing ECOTECH's in-depth knowledge of 01dB instruments," said Naseem.

In its first few months of operation, even prior to NATA accreditation, the CSR Centre serviced dozens of 01dB sound meters and equipment from domestic and international customers, including DUO, CUBE and FUSION 01dB instruments from environmental monitoring consultancies in Taiwan, Indonesia and Malaysia.

For more information about the ECOTECH 01dB Calibration, Service & Repair Centre, or other ECOTECH calibration services, please contact Horacio Viana on +61 (0)3 9730 7800 or calibrations@ecotech.com

> "With a 7-10 day turnaround, our Melbourne-based 01dB Calibration, Service & Repair Centre delivers globally recognised NATA accredited services, saving 01dB customers valuable time."



Building on the First Successful Year – ACOEM Environment Enhanced in Nordic Countries

ACOEM Environment's Nordic headquarters are stationed in Gothenburg, Sweden.

ACOEM Environment is a special division of the ACOEM Group, a global enterprise committed to sustainable development and helping companies and public authorities limit their environmental impact.

The division brings together two respected leaders in the fields of environmental monitoring - ECOTECH and 01dB - creating the first globally integrated offering of products and services across noise, vibration, air, dust and water pollution monitoring.

In April 2018, Mikael Ramström joined the ACOEM Environment team as Nordic Business Manager, taking care of customers in the region that includes Denmark, Finland, Iceland, Norway and Sweden.

Mission, presence and location

Successfully cementing its presence in the Nordic region, ACOEM Environment has now passed one year of operations in Gothenburg, Sweden.

Developing closer relationships with manufacturers, suppliers, colleagues and partners has enabled ACOEM Environment to become the leading choice for environmental monitoring for many in the Nordic area in a short period of time.

Boosting their technical support team over the last 6 months has also given customers the additional confidence of localised, fast support when they need it.

One supplier for all your environmental monitoring needs

ACOEM Environment Nordic offers a complete spectrum of instrumentation including gas monitors, real-time particulate monitors, Black Carbon analysers, nano particulate instrumentation, particle sizing, particle elemental analysers, personal monitoring equipment and more. Customers in the region also have complete access to the entire range of ECOTECH products and services, under the ACOEM Group.

“By choosing ACOEM Environment as your supplier for gas monitors the end user will be in direct contact with the manufacturer which is unique for the Nordic region,” commented Mikael.

“One major strength is the fact that ACOEM Environment offer our Nordic customers a broad scope or ‘toolbox’ of instrumentation,” he added.



Aethlabs microAeth® MA200 - a black carbon monitor available exclusively in the Nordic region through ACOEM Environment.

To learn more about ACOEM Environment Nordic, visit www.ecotech.com/nordic

To learn more about what products ACOEM Environment distribute exclusively in the Nordic region, please see the feature on pages 16-17.

> “By choosing ACOEM Environment as your supplier for gas monitors the end user will be in direct contact with the manufacturer which is unique for the Nordic region.”

ACOEM Environment & ECOTECH, proudly partnering in the Nordic region with:

PALAS®

MAGEE SCIENTIFIC

BRECHTE







Palas FIDAS® Models 200, S & E

- Fine dust measurement system
- Continuous & simultaneous measurements
- Intelligent Aerosol Drying System (IADS)
- Remote operation & data storage
- Calibrations performed on-site
- Low-maintenance & long-durability

Magee Scientific Aethalometer®

- Real-time measurement of black carbon
- Patented DualSpot™ technology
- Multi-wavelength optical analysis
- Enhanced user experience
- Simple performance checks
- Quality assurance

Brechtel ACCESS Aircraft/U Measurements & Sampling

- Time-resolved aerosol chemistry measureme
- Light absorption & bla carbon
- Eight-channel filter sampler for off-line chemical composition
- Compact & portable
- Easy to deploy on a U
- Only uses 60 watts of power

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2B Technologies

COOPER ENVIRONMENTAL

AETHLABS







2B Technologies
Model 205 Ozone Monitor

- Internal air sampling pump
- Low power consumption
- User-scalable analogue voltage outputs
- Virtually unlimited portable data storage
- DewLineTM eliminates water vapour interference
- Dual beam feature allows heightened precision

Cooper Environmental
XACT® 625i

- Multi-metals monitoring of ambient air
- Automated Data Analysis Plotting Toolset (ADAPT)
- EDXRF analysis
- Visual reports based on collected data
- Remote polling & system control
- Spatial recognition of pollution sources

microAeth®
MA Series

- Real-time 5 wavelength UV-VIS-IR black carbon monitor
- Network node design
- Indoor & outdoor use
- 15 to 85 location filter tape cartridge
- Personal monitoring
- Built-in pump & onboard GPS

OLUTIONS THAT SHAPE THE FUTURE

com/nordic



BSI Health, Safety & Quality Audit Passed with Flying Colours

About BSI: BSI is the business standards company that helps organisations all over the world make excellence a habit. For more than a century BSI have been challenging mediocrity and complacency to help embed excellence into the way people and products work. That means showing businesses how to improve performance, reduce risk and achieve sustainable growth.

www.bsigroup.com

What is Certification? The process of certification involves an accredited third-party certification body, such as BSI, assessing an organisation in order to ascertain that their management systems meet the requirements of one or more recognised standards.

As a leader in environmental monitoring and air quality, ECOTECH is acutely aware of the seriousness of maintaining high standards across all policies and processes, both internal and external.

Certification by an independent, accredited third party is not negotiable.

As a result of this consistent pursuit of high quality, the recent BSI Health, Safety and Quality audit (AS/NZS 4801:2001 and ISO 9001:2015) ECOTECH passed with overwhelmingly positive results.

A clear vision supported by experience

Leading the Health, Safety and Quality audit team for ECOTECH was Kumar Koujalgi, ECOTECH Group Quality Manager.

Kumar joined ECOTECH in 2018 and has more than 30 years of experience implementing Quality Standards in the aerospace, defence, biomedical and automobile industries. This experience and practical know-how make Kumar ideally placed to champion health, safety and quality across ECOTECH.



Kumar Koujalgi, Group Quality Manager, leads the Health, Safety & Quality team at ECOTECH.

Building on past audit success, Kumar didn't just want to maintain the status quo; he wanted to capitalise on ECOTECH's history of ingenuity and innovation by making the company's compliance with Health, Safety and Quality standards even more dynamic and efficient.

"I went back and reframed the structure of how we work to implement the standard," Kumar commented. "We are changing the culture of Health, Safety and Quality at ECOTECH. We have the right foundations. So, making additional positive change is evolutionary," he added.

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> **"We are changing the culture of Health, Safety & Quality [at ECOTECH]. We have the right foundations. So, making positive change is evolutionary."**

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bsi.

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High quality every step of the way

As you would expect from any world-class manufacturing team; continuous improvement is relentless and ongoing.

Under Kumar's stewardship, ECOTECH is also taking the time to review, revise and implement enhanced systems and processes in manufacturing. Ensuring the highest level of quality is maintained from start to finish on every ECOTECH manufactured product is always top of mind.

The actions that Kumar and the manufacturing team at ECOTECH have taken to not only meet but surpass the AS/NZS 4801:2001 and ISO 9001:2015 audit standards help demonstrate the professional pride taken in the quality of ECOTECH products, systems and processes to serve its customers.

ECOTECH has a strong commitment to developing and complying with safe work procedures, and considers the environmental expectations of its customers.

Providing extensive training and awareness on health and safety hazards and impacts reduces risk in the communities ECOTECH operates in.

To learn more about Health, Safety & Quality at ECOTECH please visit: www.ecotech.com/hse-management-systems

"Ensuring the highest level of quality is maintained from start to finish on every ECOTECH manufactured product is always top of mind."



Diwali Delight with Non Stop Air Quality Monitoring in Delhi by ACOEM ECOTECH India & ECOTECH Monitoring Solutions

According to the Central Pollution Control Board (CPCB): "As Delhi continued to grapple with rising air pollution, air quality dropped, and the Delhi pollution level slipped into the 'very poor' category on Diwali night."

NDTV.com reported that "a thick haze engulfed the city as people continued to burst firecrackers long after the deadline set by the supreme court."

Inspired by ACOEM Group's new year "Stop Wishing, Start Doing" campaign, ACOEM ECOTECH India & ECOTECH Monitoring Solutions (EMS) took a lead role.

In November 2018, while the population of India was engrossed in Diwali celebrations, EMS station operators and service engineers throughout India were available 24 / 7 to ensure uninterrupted operation of ECOTECH Continuous Ambient Air Quality Monitoring Stations (CAAQMS).

(Continues on page 22)



Main picture: Some of the ACOEM ECOTECH India and ECOTECH Monitoring Solutions team.

Diwali, also known as the festival of lights, is India's biggest holiday. Celebrated in October or November, people in India and Nepal celebrate Diwali by setting off firecrackers, decorating their homes and enjoying sweet foods.

Source: www.nationalgeographic.com/travel/lists/seasonal/pictures-diwali-celebration/

(Continued from page 21)

Their efforts were particularly important in the National Capital Region (NCR) – a critical zone at very high risk of air pollution during Diwali. The aim was to ensure the availability of authenticated data greater than 98%.

Diwali, also known as the festival of lights, is India's largest and most significant festival. Families plan elaborate five-day celebrations, and businesses across the country remain closed during the festival. Firecrackers are set off in huge quantities adding to existing high pollution levels with additional smoke.

Delhi, one of the most polluted cities in India, suffers considerably during this period, and the situation is exacerbated by agricultural stubble burning in the neighbouring state of Punjab.

> "The team's commitment to their work and the community coupled with their drive to guarantee customer satisfaction is worth praising."



Diwali is India's largest and most significant festival. Firecrackers are set off in huge quantities which affects the quality of the air.

Extra services mean continuous environmental data collection

Due to poor air quality during Diwali festivities, monitoring air quality becomes crucial. The data collected helps alert authorities, ensuring corrective measures are in place and timely action can be taken. With so much smoke emanating from various human activities, it becomes even more important to collect the data to understand the level of pollutants in the air.

ACOEM ECOTECH India and EMS made sure all the 24 monitoring stations in Delhi were operating at optimal levels. Their team of committed engineers and technicians kept each Ambient Air Quality Monitoring System (AAQMS) in Delhi running efficiently throughout Diwali festivities. The server-based data collection ensured that real-time data updates were accessible to the public via the Central Pollution Control Board (CPCB) website.

Working together as one

The 24-member team worked together as one cohesive unit, displaying exemplary commitment by manning the stations during Diwali and the following nights. Backed up by data analysts, the EMS team ensured continuous collection of accurate real-time data.

"I am very proud of the entire team. Their commitment to their work and the community coupled with their drive to guarantee customer satisfaction is worth praising," said Samir Sabnis, Managing Director ACOEM ECOTECH India.

"The EMS team made sure that all air quality monitoring stations were functioning and delivering uninterrupted data," he added.

Radheshyam Yadav, Head Service Operations – North & East, ACOEM ECOTECH India also played an instrumental role during Diwali, keeping tabs on the entire network and visiting air monitoring stations during the day.

ACOEM ECOTECH India and EMS impressed customers with their dedication, and positive customer feedback received was another reason for the team to feel proud.

"Great effort, exemplary work done. This strengthens the goodwill of ACOEM ECOTECH in India," said one customer.

For more information about ACOEM ECOTECH India & ECOTECH Monitoring Solutions (EMS), please contact Samir Sabnis at samir.sabnis@ecotech.com or visit www.ecotech.com/india

"During Diwali festivities, monitoring air quality becomes crucial. The data collected helps alert authorities, ensuring corrective measures are in place and timely action can be taken."



Portability & Data Accuracy – Have Your Cake & Eat it Too with ECOTECH's Newest LGR Microportable Greenhouse Gas Analysers

ECOTECH is the exclusive distributor of LGR in Australia and New Zealand for research and scientific applications.

About LGR: Since 1994, Los Gatos Research (LGR), a member of the ABB Group, has been developing innovative laser-based measurement strategies for non-destructive analyses of gases and liquids. In October 2013, LGR was acquired by ABB to add a new line of high-performance gas analysers to ABB's leading measurement business. LGR now operates in ABB's global Measurement & Analytics business unit within the Industrial Automation division.

Nobody does microportables like Los Gatos Research (LGR). With its latest range of ultra-light yet highly accurate gas analysers, everything you need for the precise measurement and analysis of a variety of greenhouse gases is in one small yellow case – the LGR-ICOS™ M-GGA-918 and M-GPC-918.

Superior measurement of greenhouse gases in the field

Sensitive, fast and compact, the LGR-ICOS™ 918 analysers deliver exceptional performance in precision, sensitivity, linearity and extended dynamic range for reporting fugitive emission measurements of methane (CH_4), carbon dioxide (CO_2) and water vapour (H_2O) simultaneously.

The LGR 918 series is simple to operate, intuitive to use, has a three-hour internal battery and is significantly lighter than average weighing only 5.4 kg. Its streamlined user interface provides all the necessary options for fast data visualisation, data transfer, connectivity

setup, comprehensive system health diagnostics and troubleshooting with external connectivity via Wi-Fi, USB, ethernet, video or serial mode (RS-232).

It can be easily transported, whether in the car or on the plane, and out into the field. The convenience of having laboratory standard equipment at an economical price, with the flexibility to take immediate samples on location – anytime, anywhere – make the LGR-ICOS™ 918 a significant asset to any environmental consultant or agency.

Competitive advantage

"The latest LGR-ICOS™ M-GGA-918 and M-GPC-918 are the best microportable greenhouse gas analysers on the market today," noted Michael Preston, ECOTECH's Strategic Business Development Manager.

"The LGR 918 series boast improved stability and robustness, superior performance and accuracy. Unlike their competitors, the LGR analysers do not suffer from dust build up that can seriously affect the quality and reliability of data captured," he added.

Partnerships for environmental solutions

ECOTECH has long sought out innovative environmental equipment partners. Partners that share ECOTECH's commitment to protecting the environment. Los Gatos Research is one such company. Based on a successful working relationship spanning more than seven years, ECOTECH is LGR's exclusive distributor in Australia and New Zealand for the environmental, scientific and research sector.

LGR analysers are built on patented fourth-generation, cavity-enhanced laser absorption spectroscopy technique making them more rugged and more accurate. The technology also eliminates the requirement for sub-nanometer stability of optics, ultra-precise alignment or a high level of thermal control.

For more information about LGR-ICOS™ M-GGA-918 and M-GPC-918, contact Michael Preston at michael.preston@ecotech.com or visit www.ecotech.com/lgr

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> "The LGR 918 series is simple to operate, intuitive to use, has a three-hour internal battery and is significantly lighter than average weighing only 5.4 kg."



01dB ORION Smart Vibration Monitor the Big Winner at the Prestigious New Civil Engineer Tunnelling Awards

ORION wins major award for keeping London's historic Bank district protected during underground construction.

01dB's innovative ORION smart vibration monitor was the big winner at the prestigious 2018 New Civil Engineer Tunnelling Awards – a celebration of global tunnelling expertise and project excellence – held in London.

The award for Innovation in Technical Product or Equipment recognised ORION's significant role in London Underground's Bank Tube Station capacity upgrade project which is due for completion in 2020.

Construction contractor, Spanish infrastructure giant Dragados, chose ORION for its unique ability to simultaneously capture vibration dose values, peak particle velocity data (that can cause building damage), and re-radiated noise as a result of vibration, in a single piece of monitoring equipment in real time.

Cause & origin of unidentifiable noise

Acoustic1, 01dB's UK distributor was responsible for commissioning 12 ORION smart meters that have been placed in buildings, including banks and hotels, above construction sites, to measure vibration or noise exceedances as a result of tunnelling and excavation works.

For the first time, accurate and easily accessible online data is allowing Dragados and environmental consultants working with individual properties to pinpoint the exact cause and origin of previously unidentifiable noise and vibration breaches.



01dB ORION smart vibration monitoring terminal is robust and hard-wearing; standards compliant; easy to configure, and is hyperconnected to improve productivity and efficiency in the field.

For more information about ORION and 01dB's suite of noise and vibration monitoring devices, visit www.01dB.com

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"ORION has a unique ability to simultaneously capture vibration dose values, peak particle velocity data and re-radiated noise in a single piece of monitoring equipment."

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ECOTECH'S MAGAZINE ABOUT ENVIRONMENTAL MONITORING

2019 Issue 7

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