



SUSTAINABILITY TODAY

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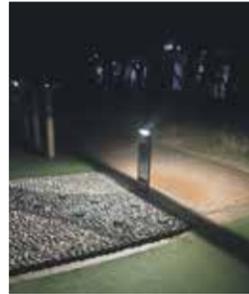
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Bollard keeps dark sky movement in mind

A specialist UK LED lighting company has introduced a new range of LED solar bollards designed with dark-sky supporters firmly in mind. Procure Direct, which supplies the Invo brand of LED lights, has recently added the Path Master to its range. The Path Master's innovative design casts all of the bollard's light downwards to the ground.



A motion-sensing LED solar-powered bollard with battery power, the Path Master has been designed for outdoor use where no electrical power is available or where energy saving is demanded, & at

the same time, upward light emissions are undesirable. Made from aluminium and producing 2,000 lumens, the Path Master has a 160-degree sensing angle and offers an eight-metre diameter of light, which can be emitted from both sides or just one side of the bollard.

Capable of being installed on both concrete and lawn, the Path Master offers two working modes: a sensor mode and a constant light mode. In sensor mode, the LED provides full brightness when movement detected, and 15% brightness after the movement

has ended. In constant light mode, the Path Master automatically turns on at dusk and stays at 50% brightness until dawn, or it powers off.

The dark-sky movement is a campaign to reduce light pollution. By reducing light pollution, stars become more visible at night, and the health, safety and well-being of both people and animals are said to improve. Energy costs are also reduced. With a five year warranty, Procure Direct says the Path Master has a 20 year life span & is IP65 waterproof & IK8 impact resistant.

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www.procuredirect.co.uk

Less than a third of UK banks are prioritising sustainability in the boardroom

Sustainability is not a boardroom priority for most UK banks, according to new research by Mobyquity: A digital transformation enabler.



In a survey of banking executives in the UK, commissioned by Mobyquity and conducted by Censuswide, less than a third (31%) of banks in the UK view sustainability as a top concern for their business. Meanwhile, less than half (45%) of UK banks are planning for sustainability initiatives, citing the main barriers as COVID-19 and industry demands.

Matthew Williamson, VP of Global Financial Services, Mobyquity, said, "The findings

highlight how the majority of UK banks are not doing enough to be sustainable. This will have a catastrophic environmental impact and in the future banks will also find it more difficult to attract customers and retain talent that have an eco-conscience."

The research however did provide some cause for optimism. Almost three quarters (72%) of UK banks are embracing digital technologies to make their business operations greener, using digital initiatives such as intelligent automation, digitising paper processes and machine learning.

The survey revealed that those banks embracing sustainability through digital technologies are seeing the benefits, with 2 in 5 (40%) UK banks reporting cost savings and customer retention.

Contact
www.mobyquity.com

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How to disagree, "well..."



Plato once said, "Rhetoric is the persuasion of the ignorant masses." My question is, what if you disagree with someone today, at work, at home or on social media? How do you argue your case in an amicable, calm and genial manner?

The Socratic Method
Is a form of co-operative argumentative dialogue between individuals, based on asking and answering questions to stimulate critical thinking.

- Debate refutation**
- ▼ They Say
 - ▼ We Say
 - ▼ Evidence
 - ▼ Impact/Summary

Avoid interruption, raising your voice or shouting the other speaker down or use false facts. Listen and challenge with courtesy so you're addressing their point directly and NEVER make it personal against them or take it personally yourself.

Get behind yourself
If you are clear on what you believe in, and you

can back it up with facts and you know what you're talking about, you should be OK to defend your position.

Listen
Be a good listener. Sometimes someone only wants to have their voice heard.

Patience
Mastering the emotion is so important. Staying courteous and keeping a "civil tongue" in your head will make all the difference.

NB. Remember, there's no textbook for life, nobody's perfect and it's all good.

Contact: Gordon Fraser, Entrepreneur, Life Coach and Motivational Speaker
www.gordonfraser.co

Innovation in heat metering, step into the future with Sontex

Sontex has been creating innovative energy monitoring equipment for over 30 years and, DMS Metering Solutions are proud to be the UK exclusive distributor.

The Sontex Superstatic 789 Heat Meter is one of the latest editions to the range, offering a composite meter body, providing high accuracy while remaining compact and lightweight. A financially beneficial alternative to the usual brass body.

The lightweight construction and lower costs add to the list of benefits that all Superstatic Meters carry. The 789s use the Fluid Oscillation Measuring Principle and have been tested to meet the requirements for MID Class 2.

The Sontex Superstatic 789 is



suitable for both domestic and commercial installations, and can also be used for RHI and Billing applications.

Sontex is renowned for its Glycol

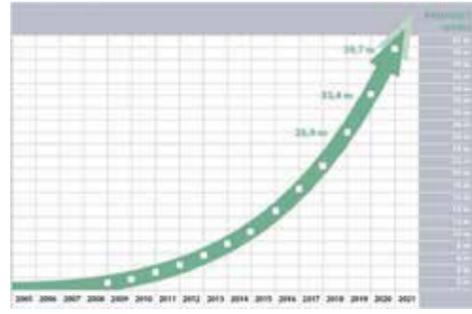
content tolerance, and this meter is no different. The 789 can be calibrated to retain high accuracy.

- ▼ Power type – Battery-powered as standard, optional lifespan of 6 and 12 years available
- ▼ Sizes – The 789s are available in sizes QP1.5 15mm, QP1.5 20mm, and QP2.5 20mm (15-20mm)
- ▼ Approvals – RHI and Billing
- ▼ Temperature – Heating and Cooling -5°C-90°C
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If you need a compact and lightweight heat meter, give DMS a call today and ask about Sontex.

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Over 100 million PROFIBUS and PROFINET devices in use

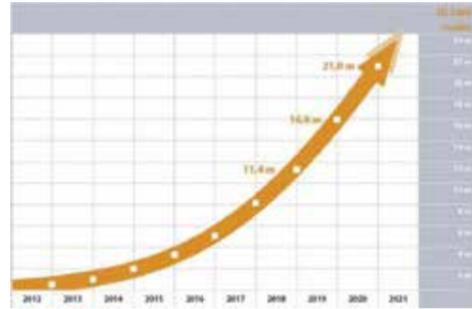


PROFINET has beaten all previous records...

Despite challenges brought about by the pandemic, products featuring technology from PROFIBUS & PROFINET International (PI) have been very well accepted by users. With the total number of PROFIBUS and PROFINET products so far installed at plants has exceeded 104 million, an impressive threshold has been crossed.

On a yearly basis, PROFINET has beaten all previous records with a total of 7.3 million products placed on the market. The number of installed PROFINET devices rose by more than 22% in comparison to the previous year, reaching a combined total of 40 million. In 2020, a total of 1.7 million PROFIBUS devices were placed on the market, of which 0.8 million were used in process industry applications.

...and so has IO-Link



As for IO-Link, 5 million devices were supplied in 2020 – the largest number of any year so far. Even in tough times, IO-Link managed to achieve a growth rate of 31%, which proves

that the technology is firmly anchored in the applications. The total number of installed IO-Link devices is now more than 21 million.

PROFIsafe also on the growth path

In 2020, 2.6 million PROFIsafe nodes were installed, narrowly beating out the previous year's figure. The total number of PROFIsafe nodes installed now stands at over 16 million.

PROFIBUS still favoured in Process applications

Over the past few years, the percentage of PROFIBUS products installed in processing plants has continually increased. It's expected that the majority of PROFIBUS products supplied next year will be utilized in process automation plants. In production technology, meanwhile, around four times as many devices have been equipped with a PROFINET interface than a PROFIBUS interface.

And introducing omlox – the standard for location and logistics

"The user sees our technologies as proven in practice, reliable and viable for the future. For some time now, users have been implementing Industry 4.0 requirements at their plants on a large scale, and our technologies provide a solid basis for this. In the past year, we added another important component for flexible and efficient production to our portfolio: omlox. This demonstrates our clear orientation toward the future," commented Karsten Schneider, Chairman of PROFIBUS & PROFINET International (PI).

Despite the constraints caused by the pandemic, PI continued to forge ahead with technology development and distribution at full speed to provide device manufacturers and users a good basis for the time when society and the economy return to business as usual or a new normal – hopefully in the foreseeable future.

Find out more about these technologies at our upcoming UK event in Birmingham: <https://bit.ly/PiUKBirmingham>

www.PROFIBUS.com

LAUDA Technology Ltd

LAUDA – Experts In Thermal Control And Measurement Providing Innovative Solutions For Thermal Process Control, Chilled Water Applications, Water Baths, Freezers, Incubators, Shakers, Stills, Tensiometers, Viscometers And Contact Angle Measurement.

LAUDA, the world market leader in temperature control equipment and systems, is expanding its portfolio with the new LAUDA Versafreeze product line and higher power Integral process circulators to meet the changing demands of our customers. The high-quality, high-reliability Versafreeze ultra-freezers have been optimised for the extreme requirements of deep-freeze storage, thereby meeting the requirements of vaccine producers, pharmaceutical service providers, vaccination centres and universities for the safe storage of temperature-sensitive coronavirus vaccines and valuable medicines, chemical substances, biological, or food and beverage research samples.

With a temperature range from 0 to -85°C, LAUDA Versafreeze ultra-freezers provide state-of-the-art refrigeration technology, excellent efficiency characteristics, flexible compartment storage layout, and are already in use across a diverse set of applications from food and beverage ingredient development to biotechnology to pharmaceutical, chemical testing, automotive, and aerospace component testing, and many more.

The higher power Integral process circulators, developed to meet the increasing cooling power



demands of the automotive and aerospace industries are capable of providing up to 25kW of cooling power @ 20°C while providing a robust and feature-rich, connected solution. Additionally, pressurised variants are also available, extending the usable temperature range of the heat transfer medium.

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Eltek Air Quality Monitor AQ112

Poor quality air in our towns and cities is well publicised. What is far less well known however, is the poor quality of the indoor air in many of our schools and colleges, places of work, and other public buildings. Contaminants in the indoor environment are more than 1,000 times more likely to be inhaled than outdoor air and can be up to 10 times more polluted.

Children are particularly vulnerable to poor indoor air quality as their lungs are still developing. Children's airways are smaller, so inflammation caused by pollution can cause them to narrow more easily than in adults.

Eltek has collaborated with the UCL Bartlett Institute to design the AQ112 Air Quality Monitor specifically with schools and colleges in mind, but it works just as well in any enclosed public space.

With the AQ112, Eltek can help educate people on the quality of the indoor air they breathe. With just a single box monitor, the AQ112 can accurately measure and record: CO₂ – Carbon Dioxide, Relative Humidity, Temperature, CO – Carbon Monoxide, NO₂ – Nitrogen Dioxide, O₃ – Ozone, VOC – Volatile Organic Compounds, PM – Particulate Matter 1, 2.5, and 10 & Sound Pressure Level.

The AQ112 is the perfect solution for constantly monitoring air quality wherever there is a duty of care to occupants.

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Cambustion

Super sensitive yet ultra-fast NO_x measurement for Air Quality / Ambient applications

New!

Cambustion recently developed an ultra-fast response ambient air quality analyzer for measurement of NO and NO₂ with a 10-90% rise time of 100 milliseconds and sensitivity down to a few parts-per-billion. This enables the measurement of roadside pollution caused by a single passing vehicle, real time plume dispersion studies, vehicle cabin air vent concentrations and raw exhaust gas emissions measurements.

Developed from Cambustion's existing range of exhaust gas analyzers, this super-sensitive yet ultra-fast version for air quality work has been developed in response to many researchers requesting faster real time data with a strong emphasis on identifying "gross emitters" entering urban environments and clean air zones.

The equipment is also useful for rapid "spot-checking" of idling vehicles or to assess the effectiveness of natural or man-made barriers such as hedges or bus shelters to shield humans from the sometimes alarmingly high instantaneous concentrations of NO_x which can be inhaled on the sidewalk.

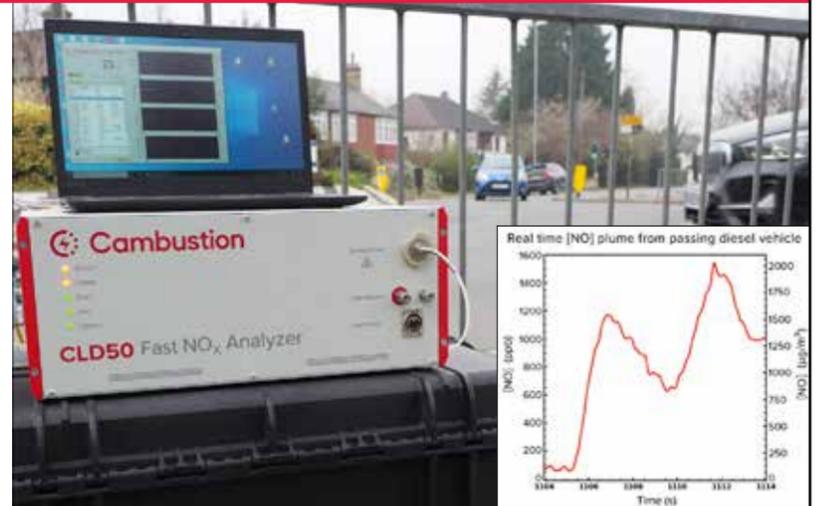
The equipment is available for on-board mobile applications including "chase studies" with heated/unheated sample line options of various lengths.

More details including specimen applications available at: <https://www.cambustion.com/industries/air-quality>

View videos:

<https://youtu.be/0wcc82dbeao>

<https://www.youtube.com/watch?v=ipcxc4kVoaM>



New pressure instrument release from Kobold

Kobold have released the latest version of their electronic digital pressure gauge; model MAN-SC for battery powered, and model MAN-LC for 24Vdc power with IO-link.

Outwardly, the two versions are similar in appearance and share most of the screen functionality features which are now accessed via capacitive Touchpads, however, depending on the application and use, each instrument version may be defined differently. For example, the battery powered instrument defined as a Digital Pressure Gauge, while the 24Vdc version can

be defined as a Digital Pressure Transmitter, which considering the innovative features of each version is rather simplistic, but it goes some way to define the natural application areas of the two versions.

Kobold's previous Digital Pressure Gauge, the MAN-SD, remained in production for 23 years, proving a very robust and popular instrument. With that record of robustness and reliability in mind, Kobold carefully developed the new MAN-SC/LC instruments, prioritising these core values, but also incorporating the wishes of customers worldwide to produce a high-quality

digital pressure gauge which satisfies traditional user applications, but also reaches out to new industry sectors.

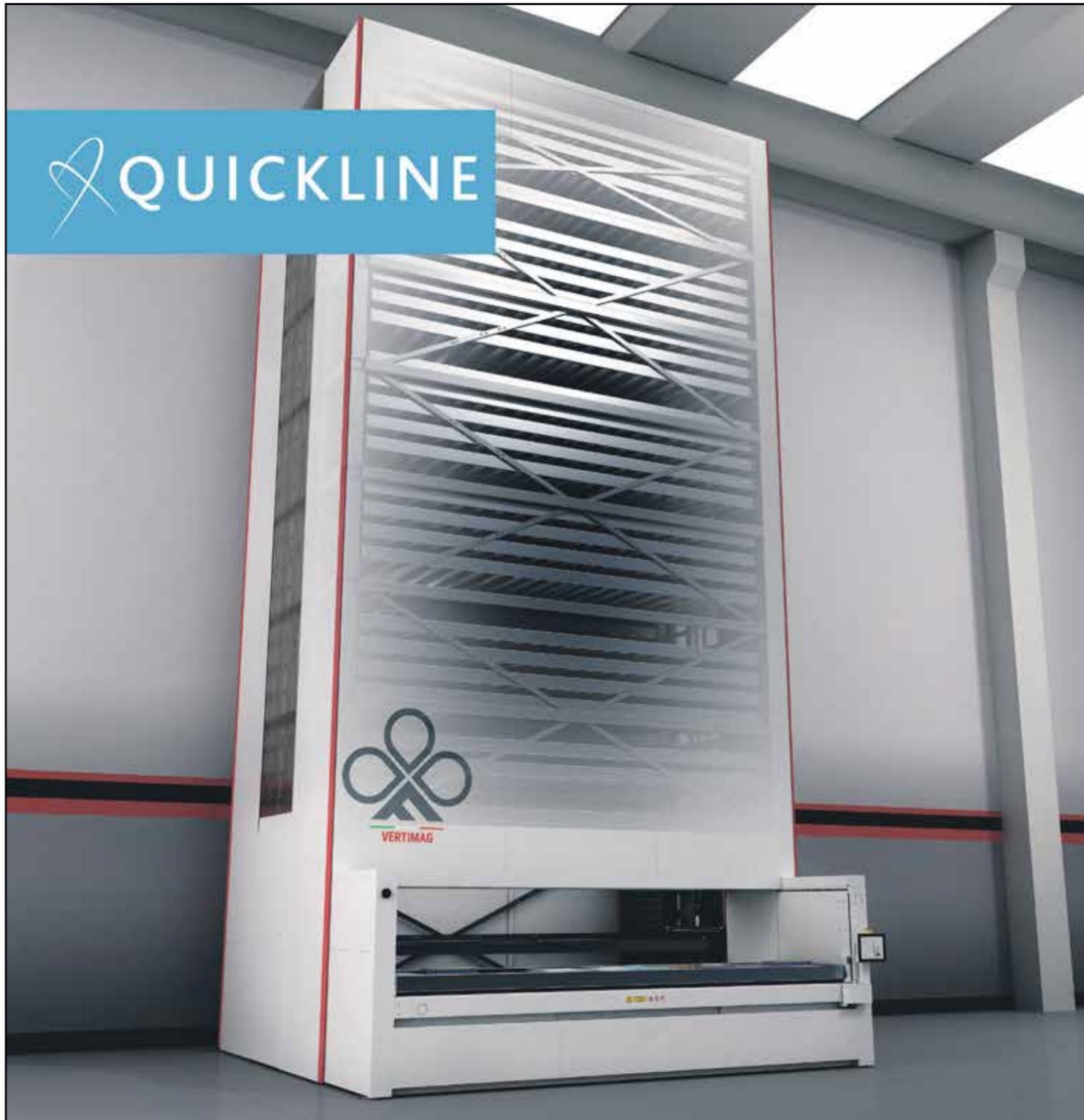
A key target requirement in Kobold's design brief was not to exceed the retail price of the previous model, which for a new innovative electronic instrument product manufactured in Germany was not an easy task for Kobold's production engineers, however, the retail price remains the same, and we think this offers considerable value for money in the current global marketplace.

So what's new?

- ▼ The new alpha-numeric 14-segment reflective LCD display screen is impressive, with a full 5-digit display, and digit height of 16mm.
- ▼ The electronic screen module can now be rotated in 90° increments; ideal for side mounted or inverted installations.
- ▼ The gauge head position can now be radially adjusted after installation for perfect positioning.
- ▼ Access to the screen options is now by capacitive Touchpads.
- ▼ An impressive range of measuring units are now accessible for selection from the programming menu, for example; kPa, MPa, bar, mbar, psi, kN, N, torr, inWC, mmWC, inHg, USR (user-defined measuring unit), providing more options than any comparative instrument so far.
- ▼ Peak memory is featured, as is password protection, and reset to factory setting.
- ▼ Battery life with 9V Lithium is now increased to 22,500 hours (2.5 years).
- ▼ A zero (tare) function is now more easily accessible from within the menu, ideal for calibration.
- ▼ By popular request, a rubber protective case cover is now available as an option, ideal for test engineers and vulnerable areas of installation.
- ▼ Measuring ranges are now available from -1...0...+1,600 Bar, which is impressive.
- ▼ The range of process connection threads has also been substantially increased and now include metric threads. Additionally, from the options list Kobold are able to assemble diaphragm and hygienic process connections.



Warehouse & Logistics News



Another unique application feature, only available from Kobold, is calculation of Force Value which is included in the programming menu. This is calculated from the measured pressure value and a programmable reference area. There are many industrial applications that will benefit from this feature but the most common request came from the construction test and safety sector for a digital pressure gauge to be included as part of the test equipment for compliance to DIN EN 1090, for example, testing of anchors and fastenings in masonry and concrete to provide conformity assessments and certification in accordance with DIN EN 1090.



So why produce a digital pressure gauge with an integral transmitter?

The MAN-LC provides so much more than the traditional barrel style digital pressure transmitter such as Kobold's popular PSD instrument, which followed the industry design trend for compact digital instruments. The most beneficial features of the MAN-LC are the clarity of the large digital display, and the multiple programmable features of the instrument.

So what's new?

The new MAN-LC model comes with IO-Link, the only Digital Pressure Gauge worldwide with IO-Link.

Many of the standard features included in the battery powered MAN-SC model are typical, however, the MAN-LC is 24Vdc powered and therefore further features are included, most noticeable when viewing the LC-display, is a backlit screen which combined with the new large display characters provides a clarity which traditional digital barrel transmitters cannot provide.

Analogue and frequency, plus alarm outputs are standard, and an optional pluggable relay module with 2x potential-free SPDT contacts is available either factory assembled, or as a retrofit kit. This enables a customer to specify a very powerful pressure instrument specification. Added to these features, the addition of a variety of flanged and diaphragm seal process connections extends the application reach to many industrial applications.

Kobold believe they have answered the most requested technical wishes from their customers worldwide, and in doing so, have produced a class leading digital pressure gauge/transmitter, in line with future Industry 4.0 requirements. Kobold has International sales offices and distributors who will be happy to offer support.



For the product datasheet and national contact details, visit: www.kobold.com

VERTIMAG VLM - Reduce your footprint by 1/10th

The innovative Vertimag Vertical Lift Module (VLM) storage system maximises the height of the warehouse whilst reducing the footprint by 1/10th.

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A new water bottle warranted to last a lifetime

An eye-catching new range of eco-friendly stainless steel and glass water bottles marrying top functional performance with great aesthetics, and a lifetime warranty was launched today in the UK by Bluewater, a Swedish company acclaimed for its innovative water purifying solutions and anti-single-use plastic stance.

Designed to keep drinks hot for 12 hours and cold for 24, the Bluewater bottles are being launched for direct sale to fashion-conscious, environmental-minded British consumers on the Bluewater UK website at: www.bluewatergroup.com/uk/product-category/bottles/



In a world where around 20,000 polluting plastic bottles are produced every second, the

Bluewater bottles have been designed and crafted to deliver really good green credentials. Not only do Bluewater stainless steel bottles come with a lifetime warranty, but plastic liners and loops have been replaced with silicone.

In addition, Bluewater is turning its pro-sustainability words into action by collecting one kilo of plastic waste from beaches & seashores around the world for every single Bluewater bottle sold. This is achieved by using a platform that helps take plastic out of the environment using a blockchain alternative to recycling where people are basically paid to return plastic waste to certified recycling centres.

Available in four contemporary head-turning colour options – Deep Blue, Powder White, Just Black and Chilled Steel – at a pocket-friendly price of £35, the new range of insulated stainless steel water bottles are visually stunning with classic form follows function Swedish design. The bottles will keep drinks cold for up to 24 hours or hot for 12 hours and are designed and made to last a lifetime.

Contact
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david.noble@bluewatergroup.com
www.bluewatergroup.com/uk/product-category/bottles/

The National Sewerage Association

The Association is celebrating 40 years since its foundation in 1981 as the Association of CCTV Surveyors by fledgling companies seeking to break what was perceived as a monopoly by the two UK pioneer companies. The name change occurred when flow survey companies joined in 1996; this allowed for companies in associated disciplines to gain admission.

We regard the maintenance of standards to be of paramount concern to safeguard the good name and continuance of an industry for which we have worked hard. Good health and safety practices, sound workmanship and employment practices, ongoing operator training, good customer service and sound common sense are expected of our members.

Our members operate in specialist drain and sewer maintenance areas carrying out works such as CCTV inspections of drains, sewers and culverts, flow monitoring, manhole surveys, cleaning and descaling, blockage clearance, small diameter pipe replacement/ refurbishment and minor civil engineering works.

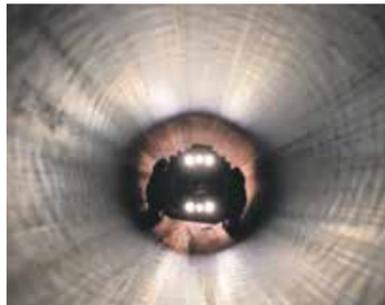


Many member companies have grown over the years and are now considered to be among the larger companies in their respective fields, while some have been acquired by larger companies and have been re-organised to meet the changing market place and others chose to remain small to serve local needs.

Manufacturers and suppliers have also supported us with their membership over the years and we have been able to work in partnership to the benefit of all.

The Association continues to meet its established objectives including meeting customer needs and service standards in performance, financial, quality and safety terms, giving guidance on request, acting as a forum for closer working relationships between manufacturers, contractors and designers in ensuring that technological development and improved contracting services go hand in hand with common commercial interest.

Audit procedures have been established to ensure that members comply with the



standards set and to deal with any non-compliance. A service is also provided for arbitration, conciliation and expert witness advice.

The development and promotion of appropriate training programmes whether in association with Develop, the Water Companies or EU Skills in order to set operative training standards, to accredit those achieving these requirements and to ensure that these standards are upheld.

The Association lobbies and liaises with those bodies that can influence members' interests, is represented on several Standards committees and seeks to achieve National and International recognition. It also acts as a focus for external enquiry for the industry and the general public.

Visit our website at: www.sewerage.org for further details.

Working to Raise Industry Standards

- N.S.A.**
 Represents the interests of companies associated with the survey, operation, maintenance and renovation of sewers, drains and pipelines.
- N.S.A.**
 Acts as a forum for its members to ensure that technological developments go hand in hand with improved operational efficiency.

Standards
 Pro-active in setting and maintaining training standards within the industry. Representation on standards and parliamentary committees and regular consultees on a broad range of Legislative and Regulatory matters.

Members
 Our members range from sole proprietors to divisions of public companies providing services such as:

- CCTV Inspections
- Sewer Flow Surveys
- Systems survey and Mapping
- Drain and Sewer Cleaning
- Equipment Manufacture
- Training

For more information visit our website: www.sewerage.org or call Val Gibbens on 020 8330 0123

A great ConSept

Allerton UK is a leading off mains drainage company, covering sales, servicing, commissioning, and repairs of all types of septic tanks, sewage treatment plants, sewage pump stations and soakaways. Working across the East Midlands and beyond, Allerton boasts a team of dedicated and experienced workers, all trained with British Water to ensure they are in the best position to properly assess a situation and correct it.



As well as its sewage treatment plants and sewage pump stations which are made on the premises, Allerton also makes the ConSept. This converts septic tanks into sewage treatment plants, and can be fitted without excavations, apart from the shallow cable and air pipe trenches. This means customers can save around £3,000+VAT by avoiding excavators on site.

The ConSept uses the existing septic tank, removing the need to install a heavy plant or new tank, and it is quick to install to save time, money, and disruption. Moreover, it is manufactured using high grade composite materials and non-ferrous components, meaning the ConSept does not corrode. The equipment also has low maintenance costs, requiring servicing just once a year and desludging and emptying once every two years. Allerton will of course service and maintain all their own equipment, servicing, repairs, and surveys of sewage treatment plants is a major part of their work. The final effluent is discharged into a watercourse or soakaway, and installation and commissioning by Allerton's British Water Accredited engineers is included in the package.

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The Allerton ConSept converts your existing Septic Tank or Cesspit into a fully functioning Sewage Treatment Plant.

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The Diamond Sewage Treatment range is suitable for either individual homes or small population applications

When Gravity Drainage is not possible choose Allerton Pumping Stations for Sewage or Dirty Water

Diamond Box secures sustainable economic growth with a new Presona baler

Diamond Box Ltd is a specialist in designing and developing packaging for many industries across the UK with vast production of boxes and packaging items every year. Investment in the business continues apace and complementing 2 of the fastest case makers in the UK that produces a massive 250,000 cases each day, making them a force to be reckoned with.

Not just packaging
Diamond Box Ltd was founded in 2007 to establish a packaging company that didn't just provide 'packaging',

is set out to provide design led, creative solutions to challenges that customers had from its West Midlands operations.

Like many box and board producers, managing trim and waste in a competitive packaging market is key and Diamond Box is no different, so a baling solution that supported them was key.

Efficiencies were compromised when the old baler failed, energy consumption (and associated costs) were disproportionate to the function of the baler, bales

were low density and inconsistent and 'payloads' for bales of trim going back to the mills was low – seeing revenue lost.

Step in Presona UK

A site survey, a detailed assessment of tonnages, working practices shift patterns, 'peak factory output', energy and payloads for trim allowed the Presona UK Team to present a solution that saved TIME, saved Money (>£30,000pa in energy alone) and gave the TEAM at Diamond a huge leap in staying lean and competitive in their respective markets.



With the recent investment and installation in a new Presona LP50 EH1 ECC, their yields (and revenues) for collected trim have increased – 'maxing out' on trailer weight and not space. An added bonus on top of the reliability and improved factory efficiency.

The LP50 EH1 ECC is one the smaller balers that Presona UK supply; however it proves a popular choice for retailers and packaging firms looking to improve operational efficiencies and cut emissions – costs. For Diamond Box the new baler will have the capacity to bale over 45,000 tonnes of material each year, all of which is recycled back into new boxes – a truly circular economy!

Diamond Box will be contributing towards making the planet a cleaner place with Presona balers being up to 60% more energy efficient than typical shear balers, and having a collection of energy (and cost) saving options to use the right amount of energy and power.



Their new baler also has the latest remote data software, meaning Diamond Box are able to log into their baler remotely from anywhere in the world. This means they are able to retrieve live information from bales per hour, to material processed and much more.

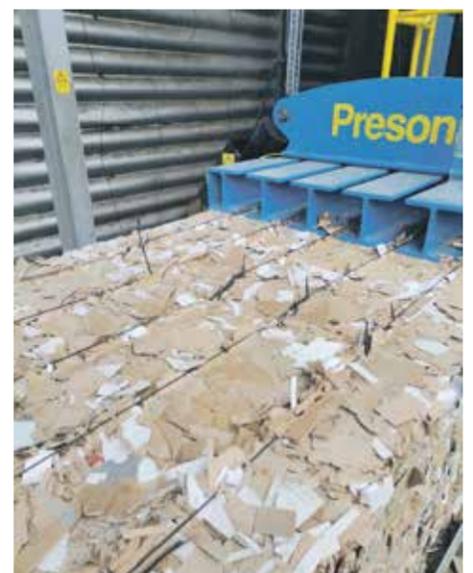
Diamond Box Ltd said, "As we continued to grow with the demand of packaging, so did the trim and offcuts of our packaging materials. From this we needed a solution that was as efficient and effective at keeping up with our requirement for the foreseeable future."

Diamond Box added, "Sustaining a circular economy is just as important to us as supplying our customers with the best packaging solution. Presona clearly see a world where recycling just works with the equipment and services they offer, that's what lead us to the decision to invest in a Presona baler. Additionally, the Presona Team have worked closely and dynamically with us to provide the optimum solution."

If having a baler that can save you time, give you a productive team and be more cost and energy efficient is what you are looking for, give Presona a call today on 01278 444527 and arrange for a site survey looking at energy, costs and operational needs.

Together, we can all see a world where recycling just works!

www.presona.co.uk



Crushing & Screening News

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Sustainable by Design



At Glasdon, the company is passionate about the environment and committed to improving its environmental impact. Dedicated to integrating sustainable and ethical practice into its day-to-day activities, Glasdon aims to be an economically, environmentally, and socially responsible member of the local and global community.

"The core of our business is to provide long lasting quality products which improve public spaces, enhance site and ground safety and protect the environment.

"New product development has been a defining element throughout our history. We are continually enhancing our product range and pave the way in the market by introducing unique products. Working together with our innovative design team, we want to provide real world solutions, tailored to meeting our customers' needs," stated Neil Gilkes, Sales Manager for Glasdon UK Limited.



Glasdon UK serves over 50,000 customers throughout the whole of the UK. As a company, it is committed to constantly evolving, to meet the specialised demands of its customers.

"We design our products to have a long service life and wherever possible they are made using recycled and recyclable materials. Researching and implementing new sustainable technologies and manufacturing processes allows us to achieve this. The vast majority of our products are proudly manufactured and assembled in the United Kingdom which helps ensure our carbon footprint is kept to a minimum," mentioned Neil.

Assisting with implementing and adopting practices to help keep areas tidy and litter free, the company has a large selection of indoor and outdoor waste and recycling containers, available in a selection of styles, sizes and colours to suit all requirements.

"Implementing a recycling solution that helps users segregate waste efficiently will really help boost recycling rates." Neil continued, "Ideal for offices and indoor facilities, our new Nexus® Stack Recycling Bins are available in single, double and triple stacks for up to 6 individual waste streams. Choose the apertures and graphics you need to create the ideal sorting system for your organisation's needs."

Another exciting addition, Glasdon has a



new product range the Nexus® Evolution City Recycling Bin. This external recycling bin is the perfect solution for the collection of up to four separate recycling streams in one large capacity container. With 3 models, 5 configurations and over 50 interchangeable apertures available, the Nexus Evolution City is set to become one of the most flexible external recycling bins on the market!

Create inviting and sustainable outdoor spaces where you need to with seats, benches and picnic tables manufactured from recycled materials.

Glasdon Enviropol® material is predominantly produced from post-consumer polyethylene and polypropylene. This means the Enviropol slats on one of our seating products could contain as many as 102,420 recycled bottle caps!

Whatever your requirements, Glasdon is always happy to help. For more information, visit the company's website at: www.glasdon.com to view its full product range, or contact its sales



team at: sales@glasdon-uk.co.uk

sales@glasdon-uk.co.uk
www.glasdon.com

Ulster Shredders

Industrial shredder specialists, Ulster Shredders, continue to provide shredding solutions for companies across the globe. 2021 is a busy year for Ulster Shredders, as they continue to develop and distribute new products.



A key value that Ulster Shredders have carried throughout their 50 years of business is customer support and focus. They understand the importance of supporting their customers to manage their waste in a sustainable manner. Ulster Shredders' engineering team manufacture versatile and robust shredders that are equipped to overcome and reduce the size of a variety of large problematic objects. No application is too tricky, as with 50 years' experience behind the company they have designed a product range that can shred all types of material.

Machine operator safety, running

costs and efficiency is taking into consideration when Ulster Shredders manufacture bespoke systems. The Northern Ireland based company also manufactures pusher hoppers and conveyors providing full systems for customers.

When tackling size reduction, Ulster Shredders treat each application differently and provide the best method to tackle bulky material. Their sales team guides each customer throughout the process and helps them select the most adequate shredder.

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Robust machinery for solid waste management

Ever since 1971, Tana has been in the forefront of designing and manufacturing robust machinery for the purposes of solid waste management. With decades of experience on the needs and requirements of landfill and waste management operators, in the early 2000s Tana expanded its machine selection with the TANA Shark mobile shredders. The core design of the TANA Shark has remained the same throughout the years: a robust, single-shaft slow-speed shredder with enough torque to process even the toughest materials such as used tires or mattresses.

Having prospered over almost half a century, Tana have seen many developments in the marketplaces, both here and abroad.

Naturally, taking the temperature of fluctuating trends is essential for innovating and keeping their products at the cutting edge of customer demand.

Tana's customers operate in countless different areas of the waste management industry. They treat a wide range of waste types and streams using a variety of processes. Tana's job is to help them do that as easily, cost-effectively and ecologically as possible.

Check out more at: www.tana.fi



What separates TANA Shark from the competition is its versatility. The TANA Shark can process various materials, allowing the user take full advantage of multiple waste streams. TANA Shark's changeable screens make producing an end-product in various particle sizes easy. The Shark can do both pre-shredding as well as produce a homogenous end-product. One Shark can replace even two machines!



Despite its robust construction the TANA Shark is also smart. Equipped with TANA's state-of-the-art information management system TANA ProTrack®, the user of TANA Shark will be able to monitor and optimise their process. Additionally, TANA ProTrack® allows service personnel to monitor the machine in real-time, delivering fast and accurate service when necessary.

From its South Yorkshire headquarters, Tana Recycling Machinery UK brings a touch of Nordic expertise and engineering know-how with its innovative recycling machinery ranges.

The Doncaster-based firm is the UK distributor of all Tana products, designed and manufactured by the privately-owned Finnish parent company Tana Oy, which has grown to a global name in just under 50 years of trading.



TANA Recycling Machinery (UK) Ltd was established in May 2016 and has been the forefront of delivering unmatched versatility to the UK recycling industry. Last year TANA UK had the honor of receiving the international dealer of the year award for outstanding performance.

Tana's mission is to provide customers with simply more money on the bottom-line with cutting-edge technology in solid waste management. The company is based, and all their products are designed and manufactured in Finland.

All Tana products aim at providing maximum efficiency and profit to make waste management businesses thrive. TANA machines are designed with skill and experience using the best components and materials available.

Green Products & Services News



Specialists in Water Boreholes and Ground Source Heating

Dragon Drilling is the largest environmental drilling company in the UK and specialises in water and ground source heating borehole installations.

Their services are ideal for most applications, including rural homes, new build, retro-fit homes, leisure facilities, care homes, caravan parks and farms. A water borehole enables you to become independent of mains water, whilst ground source heating is a sustainable energy which allows your property to have a constant heat whilst receiving payments from the Government's Renewable Heat Incentive scheme.

If you have high water or energy bills why not contact Dragon Drilling today for a free site assessment to see how they can start saving you money!

WATER BOREHOLES

If you currently use a large volume of water and face costly metered charges a water borehole can save you considerable sums of money. It also offers an excellent alternative if you have poor water quality or an unreliable supply. Sustainable in drought conditions and offering a reliable pressure, water boreholes can deliver safe, clean water direct to your property. Ideal for farms, caravan parks, leisure facilities and rural homes, water boreholes enable you to become independent of mains water.

Q&A: Water Boreholes

How much space do I need?
"The actual space required for a water borehole may be as small as a driveway. If you can get a Land Rover with a trailer to the drill location, our drilling rig should be able to gain access."

Can a water borehole be installed in a town property?
"Yes, we have installed water boreholes in many urban locations."

Do I still have to pay a water company once a water borehole has been installed?
"No, once installed your water will be supplied free of charge. You will only be subject to the running cost of the pump. If you are on mains sewage, you are still required to pay for this service."

What does the borehole look like at the surface?
"At the surface, we install an ordinary manhole cover, over which you can safely walk and drive."

How do you know if there is a sufficient water supply in the ground?

"We have an in-house geologist who assesses the underlying geology of the site and provides an anticipated drill depth for your borehole. At an additional cost and if required, the British Geological Survey can carry out a third party assessment. We cannot guarantee the quantity or quality of the water."

Is ground water safe to drink?

"Usually but not always. The water source may contain dissolved minerals that need to be removed. We recommend water quality tests are carried out and, if required, the installation of treatment systems."

Do I require a licence to install a water borehole?

"Anyone is allowed to extract up to 20,000 litres per day without a licence. If you require a greater volume of water, you will need an Abstraction Permit from the Environment Agency. We can assist with all licensing matters."

GROUND SOURCE HEATING

Extracting energy from the ground to heat a property is a sustainable use of the Earth's natural resources and could reduce your fuel bills. A few metres below the ground, the temperature is constant throughout the year and this energy can be harnessed to heat your home and water.

The benefits of ground source heating systems include:

- On average, 75% free renewable energy
- Government incentives available
- Fixed and stable energy costs
- Lower carbon emissions
- Constant heat 24 hours a day
- Fuels both hot water and heating
- Directly replaces your existing boiler
- Reversible to provide cooler temperatures in summer
- Can add value to property

Q&A: Ground Source Heating

How much space do I need?
"The actual space required for a ground source heating borehole may be as small as a driveway. If you can get a Land Rover and trailer to the drill location, our drilling rig should be able to gain access."

Can I install ground source heating in an old property?
"Yes, this is possible."

How much will I save?
"You could save up to 75% of your fuel bill."

What does the borehole look like at the surface?
"Each borehole is covered with a manhole of around 15cm"

How many boreholes will I need?
"This depends on how much heat is naturally lost from your building and the

kilowatt capacity of your system. Generally, the bigger the property, the more boreholes you are likely to require. A typical four bedroom property may need two ground source heating boreholes."

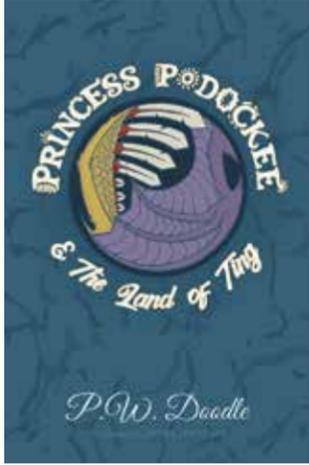
If I need multiple boreholes, how far apart should they be?
"Ideally, ground source heating boreholes ought to be situated a minimum of six metres apart to maximise the efficiency of the heating pump system."

Do I need to gain permission to install a ground source heat borehole?
"Not usually. Permission may be required when drilling into an area containing coal. We can assist with all matters relating to permission and licensing."

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New children's book promotes climate action

P.W. Doodle actually created the character of Princess Podockee back in 2012, but waited for the perfect moment to release the story to the world. With lockdown in full swing and climate action needed more than ever, 2021 was 'the moment'.



The book, titled 'Princess Podockee and the Land of Ting', uses a fun and enchanting story with some very real, vital and actionable messages for its young audience.

Princess Podockee is not as you would imagine a 'normal' princess to be... Oh you know, the ones that live in castles or the ones that await in a sleeping slumber for their long-lost prince to arrive... Or the ones that are just born into a life most of us could never comprehend. No, no – our princess is the real deal. She believes in unity and one love. Follow us dear readers, on an adventure of self-discovery while bringing back balance to the world we know. Princess Podockee and her friends will bring more than just colour and hope into your lives.

"The book is a colourful, creative and truly playful way to help children understand the climate crisis we are facing, and be empowered to take action," explains the author. "Every little thing we do individually and as families will make a change from each end of our patch until we heal the world... One planet, One love. I'm confident they'll be inspired to grow into our planet with its future in mind. Only together can we make this change."

misspollywollydoodle@yahoo.co.uk

Innovative, inflatable worldwide cold store solution

Dawsongroup | global has drawn on its extensive heritage and expertise in delivering quality temperature-controlled solutions and asset management in the UK and Europe to develop and launch TEMP^oSTORE™, a range of innovative inflatable cold storage solutions which can be deployed in under 60 minutes.



Manufactured by Dawsongroup | global, with leading inflatable structures expertise from sister company, Tectoniks, the TEMP^oSTORE™ range provides highly compact, simple-to-use inflatable cold store solutions, anywhere in the world.

Designed initially for use within international aid projects and in disaster relief areas, the TEMP^oSTORE™ 10 received immediate interest from some of the world's leading humanitarian agencies. The TEMP^oSTORE™ 26 has already been successfully tested on site with an NGO for one year in inclement weather conditions.

The innovative inflatable structures in the TEMP^oSTORE™ 10 & 26 ranges offer rapid solutions for any emergency cold storage requirements expanding floor coverage up to 78 square metres.

The flexible design also lends itself to hard to reach locations, particularly where there is limited cold chain infrastructure already in place, providing a temperature-controlled interior range of +2°C to +15°C and ambient range of -2°C to +50°C.

www.dgglobal.org
https://player.vimeo.com/video/469799708

Let the film start! MULTIVAC battles climate change

Slicing and portioning food without waste, developing packs made of recyclable materials, actively supporting sustainability initiatives and collaboration: In a new short film, MULTIVAC explains how the company is engaging in the battle against climate change – as the only specialist packaging business, which has managed to be in the list of '50 Sustainability & Climate Leaders'. The film can now be seen on the website at: <https://uk.multivac.com/en/multivac/>

Climate change is proceeding at pace. Governments alone cannot avert the threat. Industry and commerce worldwide has to become active. In order to inspire companies to become involved in the battle against climate change, the media company Bloomberg has initiated the '50 Sustainability & Climate Leaders'



campaign, which promotes the most successful company strategies for sustainability. Part of the initiative is a documentary series, which presents approaches to all aspects of sustainable business activity.

"The film shows how significant our sustainability drive at many different levels is for our daily business operation," explains Christian Traumann, Group President of MULTIVAC. At the end of 2021, the company will also take part in a summit organised by the United Nations, at which the 50 Climate Leaders will come together for podium discussions, debates and interviews. The short film was made for this summit, which was postponed due to coronavirus, but can now be broadcast.

<https://uk.multivac.com/en/multivac/>

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You can only improve what you can measure!

As businesses reopen it's important to provide safe airspace for all employees in order to minimise the risk of transmission of newer COVID-19 strains, but also to promote a healthy working environment with higher levels of productivity and creativity.

It is now generally accepted that SARS-CoV-2 is transmitted via fine aerosols generated through breathing, and that simply opening our mouths and talking

increases the volume generated by as much as 30 fold, which is why ventilation (exchange of air) is so important in indoor spaces, but you may not be aware of how important CO₂ levels are to our alertness, health and cognitive abilities (see: www.ncbi.nlm.nih.gov/pmc/articles/PMC4892924/). If CO₂ levels can be maintained below 800ppm through the automatic or manual introduction of fresh air, employee productivity and health will benefit.



Monitor indoor air quality and ensure healthy levels of ventilation are maintained. You can only improve what you can measure!



Omni Sensors & Transmitters, supplier of indoor CO₂ monitors and other environmental sensors, offers a cost-effective means of visually monitoring air quality to reassure employees of a healthy indoor environment. Both the Aranet 4 Home and CO₂ Guard are battery operated and provide a visual indication of CO₂ level in ppm. The EE800 features temperature and humidity measurements in addition to CO₂, and has optional Modbus RTU or BACnet MS/TP digital interfaces.

The Aranet 4 home device connects via Bluetooth to a smart phone and displays up to 7 days logged data. If a networked monitoring system is required for sites with multiple rooms or buildings, a wireless Aranet 4 monitor is available together with a base station (hub) for up to 100 monitors with PC or Cloud connectivity for remote data logging and SMS messaging if alarm levels are exceeded.

In addition to CO₂ monitors we also offer Figaro and SmartGAS gas sensors, OEM modules and transmitters for refrigerant leak detection, flammable gases, toxic gases and VOCs and E&E Elektronik environmental monitoring solutions.

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Silsoe Odours

Silsoe Odours is a specialist odour consultancy that delivers independent, industry-leading technical expertise helping a wide range of customers to assess, understand and manage odours. As a leading independent UK odour consultancy and laboratory, Silsoe Odours utilises its highly skilled team which provides an abundance of experience in odour management, measurement and consultancy. As a team of technical experts, they maintain unrivalled experience in the field of odour measurement, quality expertise, education and technical analysis. Notably, the company's odour laboratory was the first in the UK to be UKAS-accredited to BSEN13725. The main beneficiaries of its services are for those involved in industries where odours are a by-product of their operations. As such, the company works with a variety of industry sectors including intensive farming, biofuels and anaerobic digestion, waste management, composting and landfill, food processing, housing development and planning and much more. Working closely with each client, Silsoe Odours' services are tailored to specific customer requirements and are used for needs such as to reduce odour emissions, demonstrate regulatory compliance or achieve planning permission. The main ethos of the company is to assist its customer in understanding, managing and providing strategies for change in the field of odour nuisance and pollution. As a friendly, family-led team, Silsoe Odours is transparent in its operations and maintains an open and honest dialogue with its customer. The team is more than happy to assist in any way it can and will go the extra mile to ensure it delivers exactly what its customer needs, when they need it.

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www.silsoeodours.com

The A to Z of Effective Communication: Pocket primer to help get your message across

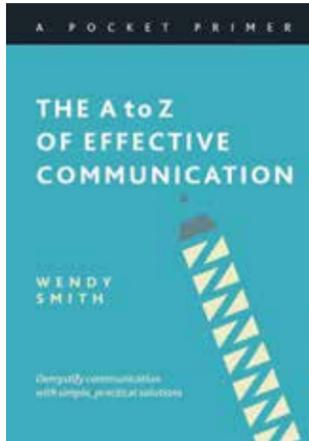
What does it take to get your message across effectively in meetings, at conferences and in day-to-day business life? At this time, it is more important than ever before to find out.

Writer and soft skills trainer Wendy Smith has packed her passion and knowledge honed over 20 years of helping people communicate effectively into 48 pages of distilled simplicity to get right to the nub of what it takes to get your message across.

The A to Z of Effective Communication is packed with 26 straightforward tips and ideas covering the moment you take your first breath in preparation to speak and how to get right inside the heads of your audience to the tech-oriented skills needed in today's virtual world. Priced at £7.99 for the printed version, The A to Z of Effective Communication is available now on Amazon.

The book is designed as a pocket primer with subtle, quirky illustrations by Italian-based designer, Simonetta d'Ottaviano. With its handy format, it is physically accessible for anyone to use whether they are students in class, teachers online or entrepreneurs having to make an all-important pitch to investors.

Contact: Wendy Smith, Coralstone Training
M +44 (0)7970 698739
wendy@coralstonetraining.com



Yonder expands to the UK



Yonder, the US based travel platform that invites people to reconnect with the natural world with its nature based accommodation focus, recently launched its UK collection with over 5,000 rural self catering properties and a dedicated UK operations team lead by Andy Woodward, Executive Director, UK & Ireland and Emma Johnson, Director of Operations, UK & Ireland.

"Unlike most conventional booking agencies that require travellers to sort through thousands of urban listings, Yonder is a platform that exclusively features rural experiences," said co-founder and CEO, Bill Lee. "Yonder is launching its first collection outside of the US due to the maturity of the UK rural accommodation market and all the incredible nature-rich options. Later this year we will be expanding into Italy followed shortly by six other countries."

Featured properties include KingFishers, eco friendly holiday cottages located in a secluded 52 acre valley, a few miles from Branscombe beach in East Devon. Alternatively, The Shearing Shed, Old Farm Dorn, in The Cotswolds and Hoe Grange Holidays, a cluster of self catering cabins set on a Peak District farm.

To list your property and apply to become a potential Steward: <https://global.yonder.com/stewards/uk>
Or for more information, please call 0203 966 7328 or email: ukoffice@yonder.com

Perks, pitfalls and protection: Plugging into the green revolution

Kris Johnson, renewable energy insurance expert at Lycetts Insurance Brokers, examines the risks of landowners diversifying into the burgeoning renewable energy market and outlines how they can protect their investments

There is an undeniable shift towards a greener, more sustainable energy sector, as governments, both domestically and globally, grapple with the ensuing impact of climate change.

The UK government has committed to net zero emissions by 2050, with renewable energy generation hitting record highs in 2020, according to data from National Grid ESO, Britain's electricity system operator.

As demand for greener energy grows and more pressure is put on the network, the energy sector will inevitably become more decentralised.

With pledges, incentives and grants on the increase, it is clear that the renewable energy sector will become an important player in the future of the economy – and with that will come opportunity.

Latest figures from the Department for Business, Energy and Industrial Strategy revealed that 319 planning applications were submitted for renewable energy projects nationally in 2020.

Though opportunities are bountiful, energy developers and landowners may be jeopardising the profitability of renewable projects by failing to adequately cover the financial risks faced.

Many projects are being developed and operated by renewable energy specialists but entrepreneurial landowners can also take on the responsibility and financial commitment for owning and operating schemes.

All too often, a lack of knowledge around the risks and potential liabilities, the available insurance options and the suitability of cover exists.

While many developers do have insurance for these schemes, the policies are often insufficient – putting the viability of such projects at risk.

A common issue we see is operators building new AD or biomass plants and not knowing



what insurers will and won't accept in terms of technology and construction.

One important consideration is the quality standards of equipment and installations. When it comes to equipment and installation, quality can vary greatly. For equipment deemed less reliable, premiums can prove extremely costly and, in some cases, uninsurable.

It is not just new plants that are affected. Plants that are several years old may need to be upgraded to comply with new rules laid down by insurers.

Lycetts can provide specialist advice on what cover is necessary, including contract works, delay in start-up, environmental liability, and machinery breakdown with resultant loss of revenue.

Operators should consider seeking a full



engineering solution, including mechanical and electrical breakdown cover, in addition to the traditional fire and perils cover.

Conventional Public Liability policies (covering third party property damage) can also create gaps in cover when it comes to escape of pollutants and odour issues. These gaps can be bridged by specialist Environmental Liability policies.

For landowners who simply receive rents for hosting developments, they should also be aware of possible contingent risks – liabilities they may suddenly face, for environmental pollution incidents for example, should operators go bust and schemes are mothballed.

As we look ahead, we can expect to see increasing investments in renewable projects, with electricity from zero carbon sources continuing to take an ever-greater share of our energy mix through 2021 and beyond.

Though landowners will be keen to plug in and capitalise on this trend, the pitfalls and risks are many, making specialist advice and independent risk management assessments essential to help avoid significant financial loss.

Contact: Kris Johnson
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www.lycetts.co.uk



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AFM Solutions for technology finance

AFM Solutions is an asset finance business managed by a strong team of finance and technology professionals.

With over 35 years of professional consulting experience, AFM Solutions will help you find the right type of finance for your specific requirements. AFM Solutions has considerable experience, advising and structuring over £1 Billion worth of capital assets in IT, communications, machine tooling and energy technology.

Established in 1983, AFM Solutions still functions under the watchful eyes of its current management. Its main office is based in Guildford; however, the company also has offices in Midlands, Kent, Essex and Northern Ireland.

Boasting a team of highly qualified professionals with hundreds of man-years experience behind them, AFM Solutions is there to help your business finance in all areas of sustainable technology. As a finance consultancy, its clients range from small- and large-

scale corporate sectors through to education, local authority, healthcare and charity. On a secondary note, an industry in which AFM Solutions has expert knowledge in is the funding of academy schools, the NHS and foundation trusts.

Providing a plethora of service benefits to its clients, AFM Solutions pride itself on its attention to detail. Each service delivers flexible, alternative solutions that come with the added security of having the backing of large banks. A particular service AFM Solutions offer is the use of 'off balance sheet' finance, enabling clients to keep assets and liabilities 'off balance sheet' for the company. By offering options which are tailored to each particular situation, greater overall cost reductions are delivered – AND, everything associated with your projects can be funded.

The company tagline 'Helping your organisation take the next steps' echoes its current business goals as it looks to get involved further in green technology. Working with clients on a range of eco-friendly equipment, its long-term commitment means AFM Solutions work with the client to understand costs to model the repayments against the savings and income delivered. The company also source residual value investment where needed to create the appropriate risk-reward position.

In recent developments, AFM Solutions has developed a HR related



service. Its Talent Management Division uses a financial model with a science-based approach to help organisations attract, screen, select and retain high quality, productive people. In light of recent COVID-19 circumstances, more people are now working from home, so to help combat this, has partnered with The People Performance Alliance. With their chartered psychologists and HR consultancy experience, this service should boost the overall moral of any organisation.

Looking to the future, AFM Solutions will look to expand its current renewables and green technology finance business. As it positively takes vast leaps forward in the industry, the company has an exciting future ahead.

See below for more information.

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- Building Management Systems

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Celebrating 50 years of excellence

Sustainability Today is delighted to showcase the very best of Businesses that have shown a proactive approach to sustainability. In this issue we have selected Stuart Canvas for its outstanding Commitment to Excellence.

2021 marks the celebration of 50 years of trading and at present, with sustainability representing the biggest investment opportunity in history, Stuart Canvas has revolutionised everything in the bespoke industrial textile industry.

Established in 1971, Stuart Canvas has extensive experience in manufacturing covers out of a variety of materials. These materials are then used to manufacture and design bespoke coverings for a range of sectors, including industrial manufacturing, haulage, sports, schools, military, and home use.

Based in Warrington and Sheffield, Stuart Canvas work with industrial manufacturers to solve clients' problems by designing solutions to address them. Retractable tunnel buildings are ideal for additional storage space and is the perfect solution for creating designated work areas. These can also be adapted to suit any operation including spray paint booths and quarantine areas.

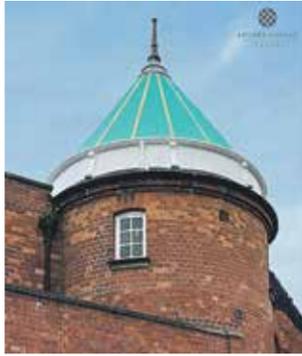
"We manufacture retractable tunnel coverings that are designed to project raw manufacturing products to help reduce waste. They are used in



the manufacturing of masonry, glass, fertilisers, and pottery. The tunnels cover bays of raw product, which reduce waste by up to 30%," stated Steve Ball, Group Marketing Manager.

Another variety of retractable covers Stuart Canvas offer is the retractable aggregate bay cover. This provides an innovative waterproof covering solution to protect all types of bulk products being stored outside.

Besides running its own line of products, Stuart Canvas owns two established brands, JMS Cricket and Mudfords. This has allowed Stuart Canvas



to increase capacity and add diversity to the group. Furthermore, this allows more products to be offered to existing customers with the quality and service that has built Stuart Canvas' reputation for



the past 50 years.

Of course this year has seen many challenges, but Stuart Canvas has an extensive medical product line which has allowed them to manufacture 100,000 units of PPE for the NHS during COVID-19.

Moreover, Stuart Canvas' products offer an array of benefits that positions them ahead of all competition. The biggest benefit being all its products are 100% bespoke. "We offer a full design and fitting service to ensure the best fit for the client's needs," added Steve.

Using only steel framework, Stuart Canvas has heavily invested in new machines and technology to allow them to design and manufacture all types of covers. The company also has a dedicated research and development team that can solve any unusual covering issues or requirements its clients may have.

Most recently, Stuart Canvas has completed a retractable tunnel for Midwest Formwork in Buckinghamshire. By offering a temporary building solution, Stuart Canvas also offers advice on how to create the best additional workspace both internally and externally. Its tunnels can be produced as mobile or static spaces and can be designed to be easily dismantled or assembled,

should the need to relocate the tunnel, arises in the future.

No job is too big or too small as Stuart Canvas works with many blue-chip companies from the UK and exports to over 25 countries.

Another recent addition to its extensive product line is the 6 Bay Motorised Cover System. These essentially are motorised retractable bay tunnels which allow the cover to be retraced over the top of each bay quickly and efficiently with a single push of a button. This system creates a watertight seal to protect the material underneath the tunnel.

2021, a year of celebration for Stuart Canvas claiming 50 years of excellence in the industry. As it looks to push on and grow into 2022, the future looks set to be exciting and successful.

For more information, please see below.

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Air Quality News

Are you a polluter?

An emotive question in our world today because we are all on a journey of discovery about how our activity affects the environment. I hope you would aspire to not knowingly producing harmful fugitive emissions to the atmosphere.

Our understanding grows every day about how human industrial activity has contributed to global warming and the increasing rate of extinction.

Throughout history there have been few events that have changed the way we all think in a very short space of time. Our mutual acknowledgment of our responsibility to protect the environment is one of those and it's heartening to hear the tone of world leaders and activists becoming one.

In our own small niche industry of storage tank venting we are breaking new ground in understanding the relationship between leak tightness and determining set points. I can hear you wondering, "What has this to do with global warming?"

My personal journey started 25 years ago when I started working for a tank venting company.

For what appears such a simple device I was surprised by the



amount of technology and research that the company invested in improving tank venting efficiency and performance. Having come from an engine manufacturing background, I found the physics and capabilities of tank breather vents fascinating.

Unfortunately there are only few innovators in our industry and far too many who copy the better designs with little understanding of the science behind them.

There is an unconditional link between efficiency and sustainability. The tank venting Standards have specified individual valve performance testing since 2008.

The shocking truth is that 17 out of 20 manufacturers do not individually test vents prior to dispatch. The tank breather vent industry is like the 'wild west' right now where 'buyer beware' could not be more appropriate. The really scary fact is that operators do not seem to be concerned by this misdemeanour.

One defence of the cheap manufacturers who cut costs by not conducting individual testing is that they claim their quality systems support repeatable production accuracy. With this in mind we purchased a range of devices to test their manufacturer's claims. All of those who claimed that they exceeded the leak tightness requirements of API2000 and ISO28300 but refused to issue individual leak test certificates failed the actual minimum leakage requirements.

So, why is this important? Operators have a right to know that their

device has been assembled correctly and leak tight to the Standards before they put the vent on their highly valuable tank.

With a 50% difference in price between the cheapest and quality manufacturers so many buyers struggle to justify the additional cost of a quality vent. Unfortunately the loss of stored media and immense damage to the environment through fugitive emissions, condensate contamination and higher costs in maintenance never seem to be taken into account when buying a new vent.

These aspects are all factors of vent efficiency. It is impossible to consider sustainability without removing all aspects of inefficiency. This is so easy to resolve. Always insist on individual leak testing of new vents and retest within 3 years of installation.

One 2 inch new tank vent that we tested leaked the equivalent of 30 tonnes of carbon dioxide per annum at 90% of the set point; the same as running 17 vans for a year.

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