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## VeroVent Communicates

### GET IN TOUCH

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*VeroVent, our multi-functional ventilation controller, is now available with a new range of plug-in communication modules for Modbus, BACnet and LON. These modules enable multiple units to communicate over a network, as well as talking to other devices on the same network or directly into other building management systems (BMS).*

The plug-in module can be added to any existing installed VeroVent units to offer a fully networked and integrated solution.

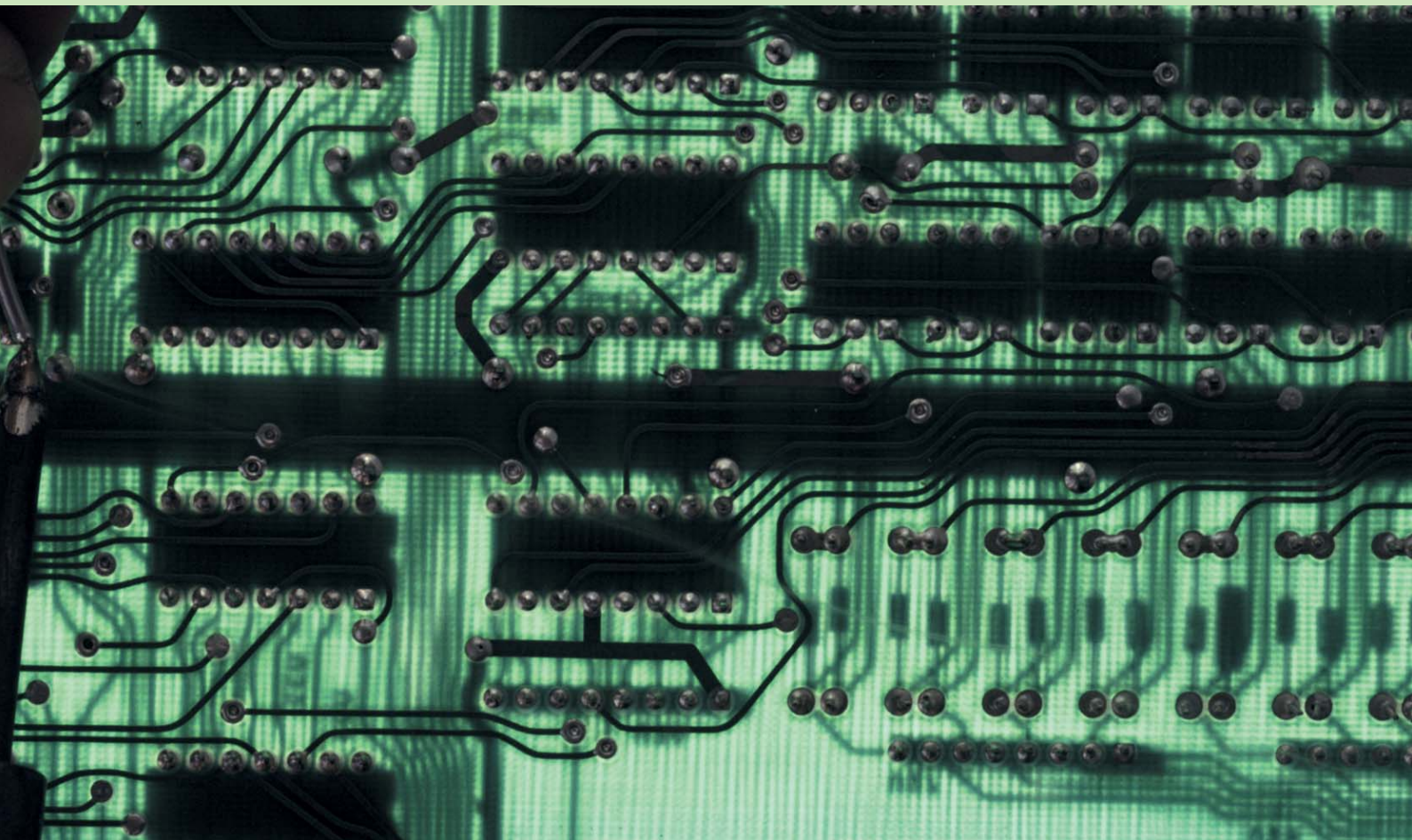
To complement these new communication modules, we have launched a range of expansion modules to extend the input / output count of the controller. VV-EXP-01 provides a further two dedicated 0~10v analogue inputs and VV-EXP-02 adds a further six universal inputs (digital or analogue) and two 0~10v analogue outputs.

These additional I/O make the VeroVent one of the most versatile and price competitive controllers on the market today, with its clear digital display, touch pad operation and unique onboard digital power

voltage outputs with inbuilt electronic overload protection, which can independently drive up to two motors (8amps FLC max).

A typical example application would be a multi stack natural ventilation installation, each with its own dedicated room mounted controller and sensors. One unit could also have a rain / wind and solar sensor connected to it and this information would be relayed to the other controllers, thus reducing the need for additional weather stations for each stack or group of stacks.

VeroVent - AHU has a large selection of pre-programmed standard applications which can be easily applied to any air handling unit or ventilation system. These include frost and re-heater battery control, cooling and run-around coil, air-air heat exchanger, VAV and many others.



# Trent ST

Trent launches its new sensor technology range.

*In light of the increased demand for the monitoring and control of carbon dioxide and carbon monoxide levels within our working and learning environment we have introduced a range of sensors and controllers to work with our proven CaterSense and VeroVent ranges as well as any controller or control system which can accept an industry standard 0~10v input.*

This new highly versatile range includes sensor transmitters for CO<sub>2</sub> (carbon dioxide), CO (carbon monoxide), air quality and ozone in their standard room sensor housing formats, as well as a full range of controllers and alarm devices.

These standard formats also enable a single room sensor housing to have for example a CO<sub>2</sub> (carbon dioxide) sensor combined with temperature and/or temperature and humidity, all with independent 0~10v sensor outputs.

The sensor transmitters have a 24Vac/dc supply input which allow for them to be connected to most standard control and building management systems (BMS).

The controllers and alarm devices can be supplied with either 24Vac/dc or 240Vac supply inputs.

**For more details on these products, please contact our sales department and quote Trent ST.**

# LabSense

Meets the demands of combined bench services and multi lab sites

LabSense has a unique touch pad system which allows for the independent control and activation of the gas, water and electric supplies. For larger, multi lab sites, LabSense can be fully integrated into our networked management / monitoring system with a master touch control display panel.

When the LabSense is turned on, it detects if a gas appliance such as a Bunsen burner has been left open or there is a leak in the pipe work. The system will automatically detect a reduction in gas pressure and will not allow the main gas valve to open. The system also has a 12mbar low pressure cut off setting which will, during its normal operational mode, shut the main gas valve if the pressure drops to this level for more than 10 seconds. This 12mbar low pressure level is at a point where the flame is weak and can self collapse or be simply blown out.

The system is enabled via a teacher's key switch; this restricts the use of the system. Each of the services, gas, water and electric are pre-selectable to enable full control. When the services are selected the LabSense will carry out its proving function. Any of the services can be de-selected

during the operational period or they can all be switched off by either pressing the system stop pad or via the inbuilt operational period timer (adjustable).

The LabSense also has provision for a remote emergency stop knock-off button circuit to be connected as well as a fire alarm inter-face. If either of these circuits is activated, the gas valve will close and an audible alarm will sound. All of these circuits are low voltage to meet the current requirements for fire alarm systems.

The system can also accept a second sensor input, such as a CO (Carbon Monoxide) sensor or CO<sub>2</sub> (Carbon Dioxide) sensor and this can be set to switch off the gas supply also.

The LabSense has a clear tri-coloured LED indication and touch pad system for ease of operator use and is housed in a low profile enclosure with a wipe down facia.

Each system comes complete with a remote knock-off push button, installation and operator's manual and a two year warranty. We have a full technical support desk and help line for any of your questions.

*LabSense is a range of gas pressure proving and safety interlocks designed for school and university laboratories to ensure that the gas pipe work and appliances such as Bunsen burners are in a safe condition with no leaks before the gas is switched on.*



- Key enabled and easy to use
- Selectable operation period
- Visual and audible warning
- Pre-selectable services (gas, water, electric)
- Network option

# WEEE Compliance

Does the equipment on your wall comply?



All of the products and control panels manufactured and supplied by Trent are WEEE compliant and our registration number is: WEE/FE0103WV

*Well, it's over twelve months since all manufacturers, importers or re-branders of electrical and electronic equipment were obligated to register with the Environment Agency WEEE registration scheme.*

Despite this, it is clear that some manufacturers, stockists, suppliers and customers do not understand the significance of their legal requirement and some still don't know of its existence or what it covers.

Most of the equipment that we use or manufacture in the HVAC sector, such as sensors, power monitors, controllers and even bespoke control panels fall into category 9 "Monitoring and control instruments" as detailed in Annex A of the WEEE Regulations.

So, the electrical contractor making up a small control panel with air differential pressure switches for a commercial kitchen as a catering interlock system must be registered with the WEEE compliance scheme or face prosecution by the Environment Agency.

The supplier and installer of the products must also ensure that the items being installed are WEEE compliant as they also have an obligation under due care.

WEEE compliance is an on cost to the manufacturer or distributor which is borne by the company and adds to the operational costs of the company concerned.

So in short, make sure that the equipment being supplied is compliant.

# ClassVent

Bring CO<sub>2</sub> monitoring and control  
to the classroom

ClassVent is a range of CO<sub>2</sub> (Carbon dioxide) monitoring and control units designed for schools and university class / lecture rooms to ensure that the level of CO<sub>2</sub> does not exceed that detailed within Building Bulletin 101, Ventilation of School Buildings.

ClassVent can either draw the teacher's / lecturer's attention to the rise in level of CO<sub>2</sub> in the room by an audible alarm or by automatically opening window / wall ventilators. Stack terminal units and even fan powered fresh air ventilation systems can be directly controlled from the ClassVent unit to give full environmental control.

ClassVent has a number of additional features, such as the ability to manually open the ventilators to purge the room; time program inputs to restrict the operation of the system or extension options for out of hours operation.

The system can control the speed of the ventilation fans with respect to the level of CO<sub>2</sub>, thus saving energy when the CO<sub>2</sub> levels are low whilst ensuring that the minimum air change levels are maintained.

Additional CO<sub>2</sub> sensors can be added for larger spaces such as lecture rooms or sports halls and the system can be combined with temperature and humidity sensors.

ClassVent has the ability to save energy by interlocking with the heating / cooling systems to ensure that the heating is not on when the ventilators are opened. Wind speed and direction sensors as well as rain sensors can be wired to the system to ensure that the ventilators do not open in high winds or rainy conditions.

For larger applications the ClassVent units can inter-communicate to pass data such as rain and wind information between them. A touch screen master control and monitoring range of panels is available. The system can be integrated into a BMS (building management system) via its range of plug-in communication modules (BACnet, LON & Modbus).



- Improved air quality
- Improved pupil concentration
- Easy to use
- Multi-level visual and audible warnings
- Active control

## CPD Training

We are pleased to announce that not only has our MD, Mark Eyers been approved as a CPD lecturer, but we can now offer a range of CPD approved presentations and training courses, ranging from a 2 hour system overview to a 4 day control theory and practical training course which equates to 36 CPD module points.

All of the courses can either be given at your premises or at our fully equipped training facility in Stoke-on-Trent. We also have access to a lecture theatre and training rooms for courses for over ten attendees.

For further information and dates on the presentations and courses available, please ring **01782 844688** and ask for Lesley.



# TRENT

INTELLIGENT PRODUCTS

## TRENT PRODUCTS

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