



www.vickers-energy.co.uk
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Manchester M3 1HJ



Specialists in industrial heating controls

25 years of controlling industrial
heating systems efficiently

ABOUT US

Established in 1991, we have been specialising in energy efficiency for over 25 years, and have in excess of 6,000 installations across the UK, USA and Europe.

Gain control of your heating with our advanced energy management system – save money, save energy, save emissions.

Our energy management systems (EMS) deliver accurate heating control with maximum efficiency to reduce energy consumption – subsequently reducing energy bills and CO₂ emissions.

HOW DOES IT WORK?

Our EMS integrates a central control unit, highly accurate digital sensors and web enabled access to optimise the performance of your heating system.

The built in algorithms will process the internal and external temperatures to calculate how long the heaters should be running. Unlike a conventional heating system, the sensors are responsive to changes in conditions and will automatically adjust the heaters to achieve the pre-set temperature.

The intelligent system responds to these variable factors to ensure that the heating in any one zone never goes above the target temperature. Energy Saving Trust confirm that these methods can save significant amounts of money. They state that, *“every degree you go over your target temperature adds 10% to your fuel spend.”*

TEMPERATURE PERFORMANCE GRAPH

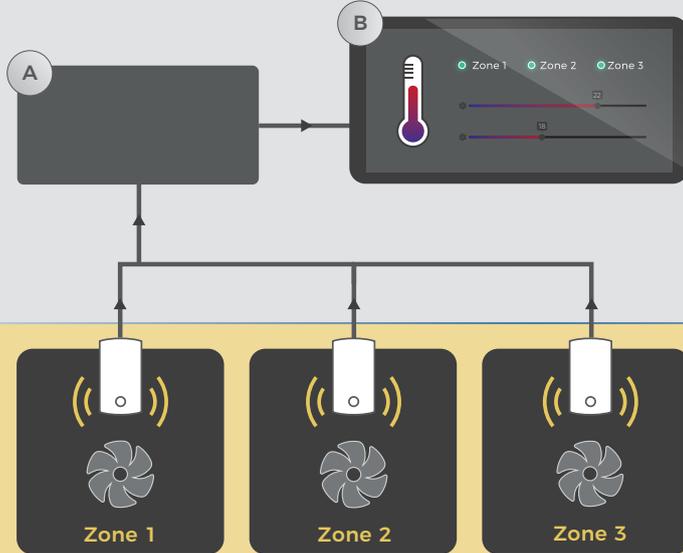
Data and control wherever you need it





CLOUD STORAGE

Data is securely backed up to the cloud and can be accessed from any device.



A OUTSTATION

Gathers all data from the sensors to push to the **central control unit**. The **central control unit** processes the temperature measurements and sends a message to the **outstation** to directly control the heaters.

B CENTRAL CONTROL UNIT

All temperature information is fed to the **central controller** via network cables to avoid dips in connectivity. Data is analysed and should temperatures need altering, this message is sent back to the **outstation** to control the heaters.

DIGITAL AIR SENSORS

Located within each zone, they continually monitor air temperature.

OUR ENERGY MANAGEMENT SYSTEMS FEATURE:



AWARD WINNING SYNCHRONOUS BURNER CONTROL

The Synchronous Burner Control circulates the residual heat, after the burner has finished firing. All stored heat continues to be circulated until the unit begins to cool, making the most of your heat input. The heater will then be activated again, and continue this cycle.



OPTIMISATION PROGRAMME

Our optimisation programme is an advanced self-learning programme that calculates the necessary burn time for each heater to achieve its target temperature. Our system will also detect how long a heater takes to cool down and switches the heater off at the required time. This learning process only takes 2-3 weeks for the system to understand the performance patterns of each individual heater.



FAILSAFE STRATEGY

In normal operation the outstations require constant instructions from the main control panel, if these instructions are interrupted, the outstation is programmed to revert to failsafe. An outstation in failsafe will continue to control the heating to a pre-set temperature, whilst alerting the user. This will continue until the issue is rectified.



TAMPER-PROOF PANEL

Only nominated staff members can have access to the panel via pin code access. Values are viewed in a read only mode to eliminate any accidental changes. Additionally, there are varying levels of access codes which can be pre-programmed allowing for Manager's Access and Service Access. You control who can see what, safeguarding your control unit.



DIGITAL AIR SENSORS

The very latest in technological design, our digital air sensors are calibrated to +/- 0.1°C. This high level of accuracy allows our system to eliminate wasted energy with precision.



VICKERS VISION

You can monitor our system from any location thanks to the cloud-based technology. You can view performance, energy usage and make changes from any internet enabled device giving you the ultimate control. Automated monthly reports can be generated showing you the benefits gained from installing our system.



VICKERS GUARANTEE

All systems come with a complimentary **12 month warranty** and service agreement which includes an onsite annual health check. Our warranty and service can be extended at any time to ensure that your energy management systems continue to optimise efficiency.

Our warranty and annual service agreement includes:

 <p>Full parts and labour warranty For any system related faults*</p>	 <p>Annual service Re-calibration of the system, re-commission and a full service report</p>	 <p>Engineer call outs Site call outs to reported system faults with priority booking slots</p>	 <p>Software updates Provided when available</p>
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TESTIMONIALS

Smith International

“ While we have consistently worked to reduce our energy usage over the years, the Vickers system has proved to be an effective tool in reducing our carbon output even further. I would recommend that the Vickers system should be considered for installation in all other Smith International sites ”

Phil Flanagan, UK Support Services Manager, Smith International

Ferro

“ I am delighted to note an actual reduction of over 40%...it has been a painless and profitable process for us and that's to the credit of the professional attitude of your company and staff ”

Simon Bowers, Business Administration Manager, Ferro

RS Components

“ The absolute flexibility Vickers EMS gives us, together with the precise control over temperatures, is proving to be invaluable ”

Ken Simpson, Senior Environmental Co-ordinator

Caterpillar

“ Through using Vickers' Energy Management System we have achieved a reduction in gas consumption of 44% and a reduction in CO₂ emissions of 280 tonnes over a 12 month period ”

Barbara Sadler, Environmental & HS Consultant

*exclusions apply.

Our **24 hour, 7 days a week** help desk is always available to assist with any technical queries

☎ 0161 886 7190



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E&OE