no one opens more vents...
General information

ENQUIRIES & TECHNICAL INFORMATION

Our fully trained sales and technical personnel are there to help with any of your questions and queries between the hours of 9am and 5pm (Monday to Friday).

**Telephone:**
- **01202 744958** SOUTH & HEAD OFFICE
- **020 7477 2215** London
- **0121 607 8088** Midlands
- **0161 930 8260** North
- **0131 549 8023** Scotland

ORDERING MADE EASY

By fax: **01202 733026**
By email: **info@vent.co.uk**
From the website: **www.vent.co.uk**

All ordering must be confirmed by fax or email.

PAYMENT TERMS

- On Account (subject to status) – immediate processing
- Visa, MasterCard, Switch – immediate processing
- Cheque – 5 day clearance before processing of order

DELIVERY

All orders are sent next day delivery whenever possible. Please open all parcels immediately in the presence of the carrier, any damage must be recorded on the carrier's consignment note at the time of delivery.

TERMS & CONDITIONS

For a copy of our terms and conditions please see inside back cover.

DISCLAIMER

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# Contents

## INTRODUCTION
- General information: ii
- Who we are: iv
- Our services: v

## CONTROLLERS & SENSORS FOR SMOKE & NATURAL VENTILATION

<table>
<thead>
<tr>
<th>Option</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ventilation system options</td>
<td>2-3</td>
</tr>
<tr>
<td>BBU Mini</td>
<td>5</td>
</tr>
<tr>
<td>BBU5 UPS</td>
<td>7</td>
</tr>
<tr>
<td>Battery Backup</td>
<td>9</td>
</tr>
<tr>
<td>Smoke Accessories</td>
<td>11</td>
</tr>
<tr>
<td>Remote Alarm Switch</td>
<td>13</td>
</tr>
<tr>
<td>TF Radio</td>
<td>15</td>
</tr>
<tr>
<td>100 DM</td>
<td>17</td>
</tr>
<tr>
<td>Nimbus One</td>
<td>19</td>
</tr>
<tr>
<td>Group Command</td>
<td>21</td>
</tr>
<tr>
<td>Powerhouse</td>
<td>23</td>
</tr>
<tr>
<td>Rain Zone 1-4</td>
<td>25</td>
</tr>
<tr>
<td>R-Switch</td>
<td>27</td>
</tr>
<tr>
<td>Double Rocker</td>
<td>29</td>
</tr>
<tr>
<td>7 Day Timer</td>
<td>31</td>
</tr>
</tbody>
</table>

## ACTUATORS

<table>
<thead>
<tr>
<th>Actuator</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>How to choose the correct actuator</td>
<td>34-35</td>
</tr>
<tr>
<td>Sintesi 2000</td>
<td>37</td>
</tr>
<tr>
<td>Micro S</td>
<td>39</td>
</tr>
<tr>
<td>Vega</td>
<td>41</td>
</tr>
<tr>
<td>C20</td>
<td>43</td>
</tr>
<tr>
<td>C30</td>
<td>45</td>
</tr>
<tr>
<td>C40</td>
<td>47</td>
</tr>
<tr>
<td>Quasar</td>
<td>49</td>
</tr>
<tr>
<td>ACK4</td>
<td>51</td>
</tr>
<tr>
<td>Micro L</td>
<td>53</td>
</tr>
<tr>
<td>Micro XL</td>
<td>55</td>
</tr>
<tr>
<td>Master</td>
<td>57</td>
</tr>
<tr>
<td>Supermaster</td>
<td>59</td>
</tr>
<tr>
<td>Twinmaster</td>
<td>61</td>
</tr>
<tr>
<td>C240</td>
<td>63</td>
</tr>
<tr>
<td>USA2/3 ACK4</td>
<td>65</td>
</tr>
<tr>
<td>D4 FCE</td>
<td>67</td>
</tr>
<tr>
<td>Max</td>
<td>69</td>
</tr>
<tr>
<td>D6 FCE</td>
<td>71</td>
</tr>
<tr>
<td>Force</td>
<td>73</td>
</tr>
<tr>
<td>D20 FCE</td>
<td>75</td>
</tr>
<tr>
<td>D30 FCE</td>
<td>77</td>
</tr>
<tr>
<td>Ulysses</td>
<td>79</td>
</tr>
<tr>
<td>Rack</td>
<td>81</td>
</tr>
<tr>
<td>Double &amp; Dual Rack</td>
<td>83</td>
</tr>
<tr>
<td>S1 &amp; S1 Dual</td>
<td>85</td>
</tr>
</tbody>
</table>

## MANUAL OPENERS

<table>
<thead>
<tr>
<th>Manual Opener</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>MK7</td>
<td>89</td>
</tr>
<tr>
<td>Classic openers</td>
<td>91</td>
</tr>
<tr>
<td>Spindles</td>
<td>93</td>
</tr>
<tr>
<td>Crank handles</td>
<td>95</td>
</tr>
<tr>
<td>Couplings</td>
<td>97</td>
</tr>
<tr>
<td>Cat</td>
<td>99</td>
</tr>
</tbody>
</table>

## ROOF VENTS & DOMES

<table>
<thead>
<tr>
<th>Roof Vents &amp; Domes</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vent Easyfit</td>
<td>103</td>
</tr>
<tr>
<td>Vent Standard</td>
<td>105</td>
</tr>
<tr>
<td>Vent Light</td>
<td>107</td>
</tr>
<tr>
<td>Vent Thermal</td>
<td>109</td>
</tr>
<tr>
<td>Vent Kerb</td>
<td>111</td>
</tr>
<tr>
<td>Vent Premier Kerb</td>
<td>113</td>
</tr>
</tbody>
</table>

## QUICK REFERENCE GUIDES & ORDER FORMS

<table>
<thead>
<tr>
<th>Reference Guide</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controller quick reference quide</td>
<td>115</td>
</tr>
<tr>
<td>Actuators quick reference quide</td>
<td>116</td>
</tr>
<tr>
<td>Vent reference quide</td>
<td>118</td>
</tr>
<tr>
<td>Roof vent quote/order form</td>
<td>119</td>
</tr>
<tr>
<td>Actuator &amp; controller quote form</td>
<td>120</td>
</tr>
</tbody>
</table>
Who we are

Vent Engineering is a leading provider of natural and smoke ventilation systems to business and local authority customers across the UK and abroad.

Well known for innovation, customer commitment, reliability and value, our success is based on a practical, straightforward approach to window opening solutions. We take complex problems and provide simple solutions.

Vent Engineering’s comprehensive range of window actuators, coupled with reliable and proven control systems are able to satisfy the most demanding customers’ needs.

Vent Engineering’s experienced design and technical departments are able to advise, design and deliver standard or bespoke systems tailored to our customers’ specific requirements for their present and future projects. Our solutions adhere to or exceed all British Standard and European regulations belonging to our industry.

With a flurry of new regulations being driven forward by Europe, Vent Engineering’s leading position in the United Kingdom has resulted in being consulted in detail by a number of Europe’s leading actuator manufacturer’s. Vent Engineering now has an unparalleled position to develop tailor-made solutions for our new and existing customers, so they can adhere to all of the British and European Standards including EN12101.

Vent Engineering provide fully trained and qualified personnel, for installation, commissioning, handover, training and maintenance of our controller and actuator systems. We operate nationwide providing a professional and comprehensive service to our clients and their customers.

To maintain our reputation for delivering on time and within budget, we have introduced a dedicated project management team to ensure continuity from inception to completion of any sized project.

Our Background

Vent Engineering was incorporated in 1988. The initial aim of the company was to supply manual winding gear for installation to high or inaccessible windows. Vent Engineering soon became the UK’s main importers of manual gearing.

Shortly afterwards, Vent Engineering introduced a range of electrical actuators from Mingardi. Our large stock holding of the most popular brands of actuators allows Vent Engineering to be the only UK importer that is able to offer the three best selling actuator manufacturers Mingardi, Ultraflex and Topp at the most competitive prices.

Manufacture

We also manufacture a large range of standard and bespoke control panels. These can be implemented to control 230v, 110v and 24v actuators in opening windows and rooflights.

For natural ventilation we are able to provide control combinations which include sensors covering rain, heat, wind and humidity conditions. Whilst these controllers primary task is to operate the actuators, they can in turn control third party fans, boilers, under floor heating, etc if so required.

For smoke ventilation we are able to provide Battery Backup and UPS panels in standard and bespoke formats. Whether you require to power one or one thousand actuators Vent Engineering are able to manufacture and supply a control panel to your requirements.

Roof Vents

Since 1990, we have also manufactured and designed a range of roof vents. These are available in standard, thermally broken and thermally clad formats and we cover glazing ranging from 6.4mm to 40mm. These vents incorporate our high standards in design, with the required ease of use for installation making us again one of the leaders in our field. With the recent introduction of Kerb, Smoke and Dome roof vents we can confidently say that we are able to provide a roof vent for nearly all projects.

Our customers’ confidence in our products and services is reflected by the longevity of our business relationships, this is provided to all our customers large or small. Vent Engineering does not only trade in the United Kingdom. With an international customer base including the Americas and Europe, our standing in the market place is confirmed by our product placements.
Smoke ventilation systems save lives. If they are not maintained as per current regulations, the management company or owner of the premises is now legally responsible.

Natural, smoke and heat exhaust ventilation systems must adhere to BS7346 Part 1:1990, BS5588. Each site requires a preventative maintenance schedule carried out only by a certified engineer on a 6 monthly basis. Vent Engineering recognise that our clients do have a choice in who they select to provide this essential service and support. As such Vent Engineering provides a range of maintenance contracts, designed to fulfil your most critical requirements in both technical and economic terms.

These include:
- 6 monthly scheduled preventative maintenance visits
- 24 hrs emergency call out facility
- Flexible out of hours preventative maintenance visits facility
- Company trained engineers
- Service logs and test schedules
- Technical support
- Priority treatment for any repairs
- Discounted prices for repair
when you need hassle free installations

installations • commissioning • preventative maintenance
Controllers & sensors for smoke & natural ventilation

Ventilation system options
BBU Mini
BBU5 UPS
Battery Backup
Smoke Accessories
Remote Alarm Switch
TF Radio
100DM
Nimbus One
Group Command
Powerhouse
Rain Zone 1-4
R-Switch
Double Rocker
7 Day Timer

ICON KEY
- Temperature
- Fire
- Rain
- Wind
- Sound
- Remote
- Timer
- Manual
- Key lock
- Battery Backup
- Zonal
Smoke ventilation systems

The purpose of smoke and heat exhaust ventilation systems (SHEV'S) is to lead smoke and heat out of a burning building, whilst keeping escape corridors and stairs free of smoke for the escape of the buildings occupants, and, to allow access for the fire department.

“90% of fatalities are caused by smoke poisoning from fires within buildings”

A Vent Engineering control system has the effect of increasing the escape time for the buildings’ occupants, thus potentially saving their lives. Upon smoke detection, via our detectors, the AOV’s (automatic opening vents), louvres or doors via electric actuators (motors) or magnetic locks will automatically open. With manual call points placed at key points in the building, fireman can still override the control system, if required. All these devices will be linked to a central control panel, complete with a battery backup system in case of mains failure.

Natural smoke ventilation relies on the buoyancy of hot gases. As smoke rises, it can be exhausted from the building by opening vents automatically. The risk of rising smoke, toxic gases and heat exhaust is drawn off into the open through the smoke vents, so that escape and rescue routes remain passable. For a natural smoke ventilation system to work efficiently, replacement or ‘make up’ air is necessary to provide fresh air openings in the lower part of the building via automatic opening vents and doors to achieve the effect of a rising thermal current.

The timing for opening all of the vents is of great importance in order to enable people to escape quickly. Therefore, the use of an automated SHEV system is to be highly recommended. The locations for opening are numerous and are as follows:

1. Automatic opening window – smoke flows into the atmosphere
2. Smoke shaft and AOV– smoke flows through an opening door or internal window and rises up to the AOV and flows into the atmosphere
3. Stairwell AOV- smoke flows through an AOV located at the top of a stairwell

Vent Engineering create stand alone or integrated systems that satisfy Building Control and meet the exact needs of the client. Vent Engineering’s systems adhere to standards including ADB 2000, BRE Report 79204, BS5588, BS7346 part 1 and the forthcoming European EN12101 regulations.
Natural ventilation

Natural ventilation has become an increasingly attractive method for reducing energy use and cost whilst providing acceptable indoor environmental quality and maintaining a healthy, comfortable, and productive indoor climate rather than the more prevailing approach of using air conditioning which in turn fails to reduce carbon emissions. With an increased awareness of the cost and environmental impacts of energy use, Natural ventilation can be used as an alternative to air-conditioning plants, saving 10%-30% of total energy consumption.

With an integrated system utilising the concept of natural, controlled natural ventilation systems, architects can rely on pressure differences to move fresh air through buildings. It is useful to think of a natural ventilation system as a circuit, with equal consideration given to supply and exhaust. Openings between rooms such as transom windows, louvres, grills, or open plans are techniques to complete the airflow circuit through a building.

Natural ventilation, unlike fan-forced ventilation and air conditioning, uses the natural forces of wind and buoyancy to deliver fresh air into buildings. Fresh air is required in buildings to alleviate odours, to provide oxygen for respiration, and to increase thermal comfort. At interior air velocities of 160 feet per minute (fpm), the perceived interior temperature can be reduced by as much as 5°F.

In summer, wind is used to supply as much fresh air as possible while in winter, ventilation is normally reduced to levels sufficient to remove excess moisture and pollutants.

Vent Engineering can create healthy room conditions as pre-condition for physical and mental wellbeing as well as a prevention of structural damage because of moisture through natural ventilation. This form of Ventilation will reduce energy consumption and operating expenses.

Cross ventilation

With windows open on both sides of the room/building, wind is used as a positive pressure on the windward side and a negative pressure on the leeward side of buildings. To equalize pressure, fresh air will enter any windward opening and be exhausted from any leeward opening. These openings will typically be located at a level above head height.

Stack ventilation

Warm air rises because it is lighter than cold air. When warm air rises to the roof of a building, a small vacuum is created at the lower level of the building, sucking in fresh ambient air through open windows at ground level – and thereby a natural airflow is created. Due to its physical nature, the stack effect requires a certain height difference between the windows used for air inlet and outlet. The windows in the roof are used for letting the "used" air out, while the windows at the lower levels take fresh ambient air into the building.

Passive cooling

Floor slabs can absorb heat build-up during daytime usage through a combination of solar gain, electronic equipment and user occupancy. As the external temperature drops at night, the building can be cooled by partially opening the vents around the building - often called night-cooling or night-purging. The example shown uses an atrium design (utilising stack and cross ventilation) for this effect.

Single sided ventilation

Rooms with windows on one side only. Cold air will stream inside, and warm air will stream out again through the same window. This kind of ventilation is normal, but it is only useful up to a certain room depth.

Single sided double opening

An advancement of the single sided principle provides a double opening, which is considerably more efficient.
DIMENSIONS

112mm

61mm

190mm

112mm
TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Voltage Supply</th>
<th>27vdc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Voltage</td>
<td>24vdc</td>
</tr>
<tr>
<td>Max Amps</td>
<td>2 amps</td>
</tr>
<tr>
<td>Zones</td>
<td>1</td>
</tr>
<tr>
<td>Overall Dimension</td>
<td>112 x 190 x 61mm</td>
</tr>
</tbody>
</table>

PRODUCT SUMMARY

- Battery backed power supply for individual actuators
- In-line fail safe power supply (actuators operate on loss of line supply)
- Upto 2amps output

PRODUCT CODES

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>PRODUCT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBBU-MINI</td>
<td>UPS Battery Back Up unit</td>
</tr>
</tbody>
</table>
DIMENSIONS

Dimension - W225mm x D95mm x H302mm

Battery Back up 5
**BBU5 UPS**

### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBBU5 230v - PB</td>
<td>7 amps with fire support and reset switch</td>
</tr>
<tr>
<td>CBBU5 230v - R</td>
<td>7 amps with auto reset</td>
</tr>
</tbody>
</table>

- **Technical Specifications**
  - Voltage Supply: 230vac input
  - Voltage output: 24vdc
  - Max Amps: 7 amps
  - Fire Panel Connection: volt free
  - Break Glass Connection: yes
  - Battery Fail Sounder: upgradeable
  - Remote Sounder: upgradeable
  - Daily Use: yes
  - Rain Control: upgradeable
  - Mains Fail Operation: upgradeable
  - Zonal: upgradeable

### PRODUCT SUMMARY

- Battery back up for up to 7 amps (18 amp upgrade available)
- Steel enclosure
- Removable door for easy installation
- Smoke sensor input
- Manual switch input
- Input for fire panel
- Reset switch

### PRODUCT CODES
BATTERY BACKUP

DIMENSIONS

- 383mm
- 105mm
- 354mm

VENT ENGINEERING

SMOKE CONTROL

230v
110v
24v
## BATTERY BACKUP

### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Voltage Supply</th>
<th>BBU6 230v</th>
<th>BBU12 230v</th>
<th>BBU18+ 230v</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Voltage</td>
<td>230 ~ 50Hz</td>
<td>230/110 ~ 50Hz</td>
<td>230/110v ~ 50Hz</td>
</tr>
<tr>
<td>Max Amps</td>
<td>24v</td>
<td>24v</td>
<td>24v</td>
</tr>
<tr>
<td>Zones</td>
<td>up to 11 amps</td>
<td>up to 17 amps</td>
<td>up to 200 amps</td>
</tr>
</tbody>
</table>

### PRODUCT SUMMARY

- Standard amps 6amp & 12amp. Bespoke amperage available upto 200amps
- Steel enclosure
- Front panel indicators: battery fail, mains fail, battery led, alarm, open, close, supply on, alarm mute
- Input for fire panel and break glass
- Remote alarm
- Visual and audio alarm
- Auto operation on mains fail (jumper select)
- Input for up to two smoke heads

### PRODUCT CODES

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>PRODUCT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BBU6 - CBBU6</td>
<td>Ventec BBU6 (6-11amps) Battery Backup</td>
</tr>
<tr>
<td>BBU12 - CBBU12</td>
<td>Ventec BBU12 (12-17amps) Battery Backup</td>
</tr>
<tr>
<td>BBU18+ - CBBU18+</td>
<td>Ventec BBU18+ bespoke Battery Back Up over 18amps</td>
</tr>
</tbody>
</table>

### UPGRADE available

- Daily ventilation use
- Rain sensor
- Remote switch
- Mains fail opening
- 110v - 24v
SMOKE ACCESSORIES

DIMENSIONS

Smoke alarm

Batteries

<table>
<thead>
<tr>
<th>2amp</th>
<th>7amp</th>
<th>12amp</th>
<th>17amp</th>
<th>24amp</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>97mm</td>
<td>150mm</td>
<td>150mm</td>
<td>180mm</td>
</tr>
<tr>
<td>Y</td>
<td>50mm</td>
<td>93mm</td>
<td>94mm</td>
<td>166mm</td>
</tr>
<tr>
<td>Z</td>
<td>46mm</td>
<td>64mm</td>
<td>96mm</td>
<td>74mm</td>
</tr>
</tbody>
</table>
SMOKE ACCESSORIES

TECHNICAL SPECIFICATIONS

SMOKE DETECTORS

<table>
<thead>
<tr>
<th>Operating Voltage Range</th>
<th>17v dc - 28v dc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity</td>
<td>3%/m</td>
</tr>
<tr>
<td>BS Standard</td>
<td>5445 Pt7</td>
</tr>
<tr>
<td>Weight</td>
<td>148g (without base)</td>
</tr>
<tr>
<td>Mounting</td>
<td>plugs into common mounting base</td>
</tr>
<tr>
<td>Colour</td>
<td>white</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>-20 C to 60 C</td>
</tr>
</tbody>
</table>

PRODUCT SUMMARY

BREAK GLASS

Break glass units guarantee effective fire protection and are required in addition to automatic detectors for smoke and heat systems for emergency situations.

The break glass unit's housing is manufactured in accordance to all UK standards.

All detection and activation elements are placed behind a thin sheet of glass, which must be broken in an emergency (manual alarm switch or push button). The signal of a break glass unit has priority in the smoke and heat vent system.

- Unbreakable ABS-plastic housing
- Lockable
- Simple installation
- Customer specific symbols possible (optional)

BATTERIES

Batteries for battery backup units from 2amp to 100amps

PRODUCT CODES

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>PRODUCT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFire-DET-ION</td>
<td>Ionisation smoke detector</td>
</tr>
<tr>
<td>CFire-DET-OP</td>
<td>Optical smoke detector</td>
</tr>
<tr>
<td>CFire-DET-PHO</td>
<td>Photo electric smoke detector</td>
</tr>
<tr>
<td>CFire-BG-R</td>
<td>Red break glass</td>
</tr>
<tr>
<td>CFire-BG-Y</td>
<td>Yellow break glass</td>
</tr>
<tr>
<td>C-SP-BAT-2</td>
<td>2 amp 12volt battery</td>
</tr>
<tr>
<td>C-SP-BAT-7</td>
<td>7 amp 12volt battery</td>
</tr>
<tr>
<td>C-SP-BAT-12</td>
<td>12 amp 12volt battery</td>
</tr>
<tr>
<td>C-SP-BAT-17</td>
<td>17 amp 12volt battery</td>
</tr>
<tr>
<td>C-SP-BAT-24</td>
<td>24 amp 12volt battery</td>
</tr>
</tbody>
</table>
REMOTE ALARM SWITCH

TECHNICAL SPECIFICATIONS

REMOTE ALARM SWITCHES WITH ALARM

Size
85 x 85 x 30 size.

PRODUCT SUMMARY

- Key switch to open or close
- Works with BBU6, 12 and 18 units
- Visual indicators for: battery fail, mains fail
- Output alarm (75db) for: battery fail, mains fail
- Timed mute button for 20 minutes
- Surface mounted or flush

PRODUCT CODES

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>PRODUCT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-SP-BBU-CFBB</td>
<td>Chrome Fronted Battery Back Up Alarm Switch</td>
</tr>
</tbody>
</table>

UPGRADE AVAILABLE

- Also available in white or brass

NO ONE OPENS MORE VENTS

tel 01202 744958, fax 01202 733026
email info@vent.co.uk  website www.vent.co.uk

Units 16c & 16f, Chalwyn Industrial Estate, Poole BH12 4PE
TF RADIO

DIMENSIONS

VENT ENGINEERING

VENT ENGINEERING

VENT ENGINEERING

VENT ENGINEERING

VENT ENGINEERING

VENT ENGINEERING

VENT ENGINEERING

VENT ENGINEERING

VENT ENGINEERING

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### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>TF RADIO 21R</th>
<th>TF RADIO 24R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply Voltage</td>
<td>230v</td>
<td>230v</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>24v</td>
<td>24v</td>
</tr>
<tr>
<td>Max Output Current</td>
<td>0.36 amps</td>
<td>1.5 amps</td>
</tr>
<tr>
<td>Protection Class</td>
<td>IP55*</td>
<td>IP56*</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-15c to +70c</td>
<td>-15c to +70c</td>
</tr>
<tr>
<td>Colours</td>
<td>grey</td>
<td>grey</td>
</tr>
<tr>
<td>Overall Dimensions</td>
<td>160 x 120 x 75mm</td>
<td>160 x 120 x 75mm</td>
</tr>
<tr>
<td>Temp Sensor</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Rain Sensor</td>
<td>upgradeable</td>
<td>upgradeable</td>
</tr>
<tr>
<td>Wind Sensor</td>
<td>upgradeable</td>
<td>upgradeable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>TF RADIO 41R</th>
<th>TF RADIO 44R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply Voltage</td>
<td>230v</td>
<td>230v</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>230v</td>
<td>230v</td>
</tr>
<tr>
<td>Max Output Current</td>
<td>1.3 amps</td>
<td>5.2 amps</td>
</tr>
<tr>
<td>Max No. of Zones</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Protection Class</td>
<td>IP56*</td>
<td>IP56*</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-15c to +70c</td>
<td>-15c to +70c</td>
</tr>
<tr>
<td>Colours</td>
<td>grey</td>
<td>grey</td>
</tr>
<tr>
<td>Overall Dimensions</td>
<td>160 x 120 X 75mm</td>
<td>160 X 120 X 75mm</td>
</tr>
<tr>
<td>Temp Sensor</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Rain Sensor</td>
<td>upgradeable</td>
<td>upgradeable</td>
</tr>
<tr>
<td>Wind Sensor</td>
<td>upgradeable</td>
<td>upgradeable</td>
</tr>
</tbody>
</table>

* In order to retain manufacturers IP rating, all entry/exit of cabling etc., should be routed/sealed with cable glands

### PRODUCT SUMMARY

- Maximum current rating 5.2amps (44R)
- Operates up to 16 Ack4 actuators
- Rain and wind sensor options
- Manual switch option
- Easy to install
- Upto 4 zones
- 433Mhz radio control

### PRODUCT CODES

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>PRODUCT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR-TF21R</td>
<td>24v Radio Control Unit 433mhz (0.36amps Max)</td>
</tr>
<tr>
<td>CR-TF24R</td>
<td>24v Radio Control Unit 433mhz (1.5amps Max)</td>
</tr>
<tr>
<td>CR-TF41R</td>
<td>230v Radio Control Unit 433mhz (1.3amps Max)</td>
</tr>
<tr>
<td>CR-TF44R</td>
<td>230v Radio Control Unit 433mhz (5.2amps Max)</td>
</tr>
</tbody>
</table>

### UPGRADE AVAILABLE
- Wind sensor
- Rain sensor
- Manual control
100DM

DIMENSIONS

- 145mm x 85mm
- 6.7mm x 30mm
- 16mm x 43mm
100-DM

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply Voltage</td>
<td>230v</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>230v</td>
</tr>
<tr>
<td>Max Output Current</td>
<td>5 amps, upgrade to 20 amps</td>
</tr>
<tr>
<td>Programmable Temperature Range</td>
<td>-19c to +60c</td>
</tr>
<tr>
<td>Colours</td>
<td>white</td>
</tr>
<tr>
<td>Overall Dimensions</td>
<td>fits 2-gang steel or white plastic pattress box (50mm deep)</td>
</tr>
<tr>
<td>Temp Sensor</td>
<td>3m cable included</td>
</tr>
<tr>
<td>Rain Sensor</td>
<td>12m cable included</td>
</tr>
<tr>
<td>Mounting</td>
<td>flush or surface</td>
</tr>
</tbody>
</table>

PRODUCT SUMMARY

- Fully automated and manual options
- Rain and temperature sensors
- Separate open and closing temperature settings
- Choice of flush or surface mounting
- Available in white. Upgrade to brass or chrome front plate
- Magnetic key lock
- Detachable rain sensor for easy cleaning
- Digital display
- Manual override
- Also available in 110v and 24v versions

PRODUCT CODES

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C100DM-F-W 230v</td>
<td>White 100DM Flush Controller With Rain And Temperature Sensors</td>
</tr>
<tr>
<td>C100DM-F-B 230v</td>
<td>Brass 100DM Flush Controller With Rain And Temperature Sensors</td>
</tr>
<tr>
<td>C100DM-S-W 230v</td>
<td>White 100DM Surface Controller With Rain And Temperature Sensors</td>
</tr>
<tr>
<td>C100DM-S-B 230v</td>
<td>Brass 100DM Surface Controller With Rain And Temperature Sensors</td>
</tr>
</tbody>
</table>
DIMENSIONS
NIMBUS ONE

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Power Supply Voltage</th>
<th>NIMBUS ONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Voltage</td>
<td>15vdc</td>
</tr>
<tr>
<td>Max No. of Zones</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>+5c to +45c</td>
</tr>
<tr>
<td>Colours</td>
<td>white</td>
</tr>
<tr>
<td>Overall Dimensions</td>
<td>Fits 2-gang steel or white plastic pattress box (50mm deep) included</td>
</tr>
</tbody>
</table>

PRODUCT SUMMARY

- Controller with wind function facility
- Works in conjunction with ECO2 or other Ventec controllers
- Measures up to 60mph winds
- Slimline case
- Automatically operates at a pre-selected wind speed

PRODUCT CODES

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>PRODUCT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNIM</td>
<td>Nimbus 1 Wind Speed Detector With Anemometer</td>
</tr>
</tbody>
</table>
GROUP COMMAND

DIMENSIONS

VENT ENGINEERING

GROUP COMMAND CONTROLLER

MODE OPEN SET CLOSE 1 2 4 3

ZONE SWITCHES

230v
110v
24v

VENT ENGINEERING

ZONAL CONTROL

VENT ENGINEERING

DIMENSIONS

VENT ENGINEERING

DIMENSIONS

VENT ENGINEERING

DIMENSIONS

VENT ENGINEERING

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DIMENSIONS

VENT ENGINEERING

DIMENSIONS

VENT ENGINEERING

DIMENSIONS

VENT ENGINEERING

DIMENSIONS
GROUP COMMAND

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Power Supply Voltage</th>
<th>230v</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Voltage</td>
<td>230v</td>
</tr>
<tr>
<td>Max Output Current</td>
<td>12 amps</td>
</tr>
<tr>
<td>Max No. of Zones</td>
<td>4</td>
</tr>
<tr>
<td>Protection Class</td>
<td>IP65*</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>+5c to +45c</td>
</tr>
<tr>
<td>Colours</td>
<td>Grey</td>
</tr>
<tr>
<td>Temp Sensor</td>
<td>3m cable included</td>
</tr>
<tr>
<td>Rain Sensor</td>
<td>12m cable included</td>
</tr>
<tr>
<td>Wind Sensor</td>
<td>upgradeable</td>
</tr>
<tr>
<td>BMS Input/Output</td>
<td>upgradeable</td>
</tr>
<tr>
<td>Mounting</td>
<td>surface</td>
</tr>
</tbody>
</table>

* In order to retain manufacturers IP rating, all entry/exit of cabling etc., should be routed/sealed with cable glands

UPGRADE available

- Fan or boiler control
- Underfloor heating control
- BMS input
- Temp sensor upgradeable to 50m
- Rain sensor upgradeable to 70m
- Also available in 110v or 24v
- Key lock option

PRODUCT SUMMARY

- Fully automated and manual options per zone
- Proportional opening
- Optional multi functional upgrade to support internal fans, under floor heating, boilers, light, etc,
- Ideal temperature setting
- Programmable for restrictive travel
- Rain sensor cable available up to 70m tuned length
- Temperature sensor cable available up to 50m tuned length
- Detachable rain sensor for easy cleaning
- BMS upgradeable
- Boiler or fan control

PRODUCT CODES

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>PRODUCT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGROUP</td>
<td>4 Zone Controller With 4 Temperature And 1 Rain Sensor</td>
</tr>
</tbody>
</table>

NO ONE OPENS MORE VENTS
tel 01202 744958, fax 01202 733026
e-mail info@vent.co.uk  website www.vent.co.uk
Units 16c & 16f, Chalwyn Industrial Estate, Poole BH12 4PE
DIMENSIONS

60mm

66mm

70mm
TECHNICAL SPECIFICATIONS

Power Supply Voltage | POWERHOUSE 230v | POWERHOUSE 24v
--- | --- | ---
Output Voltage | 230v | 24v
Max Output Current | 80 amps | 80 amps
Max No. of zones | 6 | 6
Protection Class | IP65 | IP65
Working Temperature | +5c to +45c | +5c to +45c
Colour | white | white
Temp Sensor | option | option
Rain Sensor | option | option
Wind Sensor | option | option
BMS Input/Output | option | option
Fire Panel | option | option

PRODUCT SUMMARY

- Modular BMS system
- Revolutionary design

Functions available:

**Ready made modules**
- Temperature module functions:
  - Open/close by user set temperature
  - Rain sensor (close on the detection of rain)
  - Proportional control - to open distance set by user (single zone)

**Fire panel functions:**
- 1 or 2 zones
- Each zone takes 20 smoke sensors
- 2 mini batteries for back up
- Unit powers alarm sounders
- Bell alarm for mains failure
- Conforms to BS standards
- Alarm for failure of smoke heads
- Fault indicator
- LED display
- Manual alarm switch

**Manual module functions:**
- Manual override
- Manual switches can be positioned throughout the building
- Rain sensor

**Manual module + 7 day timer functions:**
- As manual module plus-
  - Digital timer to open/close to user specified commands
  - Lock off security facility to disable opening to user specified times

**Custom Made Modules**
- Modules can be built to react/control:
  - Humidity
  - Light/ lighting
  - Pumps
  - Burglar alarms/night intruders
  - Radio control

PRODUCT CODES

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>PRODUCT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPOWERHOUSE</td>
<td>Powerhouse Building Management Controller</td>
</tr>
</tbody>
</table>

NO ONE OPENS MORE VENTS

tel 01202 744958, fax 01202 733026
email info@vent.co.uk  website www.vent.co.uk

Unit 16c & 16f, Chalwyn Industrial Estate, Poole BH12 4PE
RAIN ZONE 1 - 4

DIMENSIONS
RAIN ZONE 1 - 4

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>RAIN ZONE 1-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply Voltage</td>
<td>230v</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>230v</td>
</tr>
<tr>
<td>Max Output Current</td>
<td>5 amps</td>
</tr>
<tr>
<td>Max No. of Zones</td>
<td>4</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>+5c to +45c</td>
</tr>
<tr>
<td>Colours</td>
<td>white</td>
</tr>
<tr>
<td>Rain Sensor</td>
<td>with 12m cable included</td>
</tr>
</tbody>
</table>

PRODUCT SUMMARY

- Available in 1, 2, 3 or 4 zone formats
- Also available in 110v and 24v
- Rain sensor (optional cable length up to 50m)
- Flush or surface mounted
- Available in white brass or chrome

PRODUCT CODES

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>PRODUCT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-SW-230-PB-1Z-R</td>
<td>1 Zone White Push Button Switch With Rain Sensor</td>
</tr>
<tr>
<td>C-SW-230-PB-2Z-R</td>
<td>2 Zone White Push Button Switch With Rain Sensor</td>
</tr>
<tr>
<td>C-SW-230-PB-3Z-R</td>
<td>3 Zone White Push Button Switch With Rain Sensor</td>
</tr>
<tr>
<td>C-SW-230-PB-4Z-R</td>
<td>4 Zone White Push Button Switch With Rain Sensor</td>
</tr>
</tbody>
</table>

UPGRADE available

- Also available in 110v or 24v
R SWITCH

DIMENSIONS

- **Satin Chrome**
- **Brass**
- **Chrome**
- **White**
- **Key Switch**

**230v**

**110v**

**24v**

**MANUAL CONTROL**

**VENT ENGINEERING**

**DIMENSIONS**

- 85mm x 85mm
- 100mm x 23mm

**Vent Engineering**
**R SWITCH**

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>R SWITCH</th>
<th>KEY SWITCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage supply</td>
<td>230v/110v/24v</td>
<td>230v</td>
</tr>
<tr>
<td>Output voltage</td>
<td>230v/110v/24v</td>
<td>230v</td>
</tr>
<tr>
<td>Max amps</td>
<td>10 amps</td>
<td>10 amps</td>
</tr>
<tr>
<td>Zones</td>
<td>1,2,3,4</td>
<td>1</td>
</tr>
<tr>
<td>Colours</td>
<td>white, satin or brushed chrome or brass</td>
<td>white</td>
</tr>
</tbody>
</table>

**PRODUCT SUMMARY**

- Single pole, double throw, sensor off function
- Stylish retractive switch
- For use up to 10 amps
- Available in white, satin or brushed chrome and brass

**PRODUCT CODES**

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>PRODUCT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-SW-230-RET-1Z</td>
<td>1 Zone White Retractive Switch 10amps</td>
</tr>
<tr>
<td>C-SW-230-RET-2Z</td>
<td>2 Zone White Retractive Switch 10amps</td>
</tr>
<tr>
<td>C-SW-230-RET-3Z</td>
<td>3 Zone White Retractive Switch 10amps</td>
</tr>
<tr>
<td>C-SW-230-RET-4Z</td>
<td>4 Zone White Retractive Switch 10amps</td>
</tr>
</tbody>
</table>
DOUBLE ROCKER

DIMENSIONS

230v  110v  24v

VENT ENGINEERING

MANUAL CONTROL
### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Voltage supply</th>
<th>230v/110v/24v</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output voltage</td>
<td>230v/110v/24v</td>
</tr>
<tr>
<td>Max amps</td>
<td>10 amps</td>
</tr>
<tr>
<td>Zones</td>
<td>1,2,3,4</td>
</tr>
<tr>
<td>Colours</td>
<td>white, grey</td>
</tr>
<tr>
<td>Overall dimension</td>
<td>66 x 70 x 60mm</td>
</tr>
</tbody>
</table>

### PRODUCT SUMMARY

- For use upto 10amps

### PRODUCT CODES

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>PRODUCT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-SW-230-DR-FJ</td>
<td>Flush Jung Double Rocker</td>
</tr>
<tr>
<td>C-SW-230-DR-SM</td>
<td>Surface Mounted Double Rocker</td>
</tr>
</tbody>
</table>
7 DAY TIMER

DIMENSIONS

72mm

72mm 25mm
7 DAY TIMER

TECHNICAL SPECIFICATIONS

- **Voltage Supply**: 230v ~ 50Hz
- **Output Voltage**: volt-free - closing or opening contact
- **Zones**: 1

UPGRADE AVAILABLE

- **52 week timer**

PRODUCT SUMMARY

- Allows total daily and weekly opening and closing control for security conscious areas
- Integrates with most control systems

PRODUCT CODES

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>PRODUCT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>C7-TIMER</td>
<td>7 Day Timer</td>
</tr>
</tbody>
</table>
TERMS AND CONDITIONS

In these conditions Ventec 100 Ltd is referred to as “the Company” and the person contracting with the Company is referred to as “the Customer”.

All contracts made by the Customer with the Company shall be on the terms hereof and the Customer shall not be entitled to rely upon any statement (other than the terms of this Contract) whether oral or written and whether express or implied given or made by or on behalf of the Company.

AVAILABILITY

All delivery dates are subject to war strikes civil commotions lockouts breakdown of machinery or any other cause beyond the Company’s control and also to the Customer giving to the Company all particulars necessary for delivery to be made within any stated delivery times.

PRICES

All prices are subject to change without notice and are “exclusive of value added tax carriage and delivery charges”.

QUOTATIONS

Any quotation given by the Company is
a) To be regarded as an invitation for the Customer to make an offer and the quotation itself is not an offer by the Company and
b) Subject to any fluctuation in the price to be paid by the Company for the goods import or any other duty and foreign exchange rates and also subject to the availability of the goods to the Company.
c) All quotations are valid for a period of 30 days unless otherwise agreed.

TERMS

Payment shall be made by the Customer by the 21st day of the month following the date of invoice. If payment is not made on the due date the Company shall have the right to require payment of interest on the outstanding amount at the rate of 3% per month from the due date until the date of actual payment (whether before or after Judgement) and any discount which may have been given to the Customer will be disallowed and the full price payable in accordance with the terms of this condition.

The Customer hereby agrees to reimburse the Company on a full indemnity basis all costs and expenses incurred in either the repossession of goods sold to the Customer and not paid for or in the collection of payment for goods sold and delivered to the Customer.

OWNERSHIP

a) The title to any goods purchased from the Company shall only pass to the Customer upon payment in full of the price thereof.
b) Until such payment the Customer shall store the goods in such a way to show clearly they are the property of the Company.
c) The Company reserves the right to repossess any of the goods and equipment to which it has title hereunder and for this purpose the Customer hereby grants an irrevocable right and licence to the Company its servants and agents to enter upon all or any of the Customer’s premises with such transport as may be necessary during normal working hours to collect the said goods.

Notwithstanding that title to the goods has not passed to the Customer by reason of the foregoing the goods and equipment shall be at the Customer’s risk from the time of delivery to him or to any carrier or agent acting on his behalf.

The right of the Company to recover possession of the goods from the Customer shall be in addition to all other rights the Company has against the Customer.

WARRANTY

a) The Company’s liability in respect of any faulty goods shall be limited to damage caused to the goods by the Company and shall not extend to any defect in manufacture nor to any consequential loss or damage howsoever caused by such or any other defect.
b) The Company shall not under any circumstances whatsoever be liable for any loss (which expression in this clause included injury damage or delay) or for any consequential loss arising out of any cause whatsoever relating to the goods and in particular due to any malfunctioning of or defect in or failure of any of the goods or any part thereof or any loss of the use of the goods or any part thereof.
c) Any warranties or conditions statutory or otherwise whether express or implied as to the quality or fitness for the purpose of the goods are expressly excluded in so far as such exclusion is allowed at law.
d) This agreement shall unless otherwise stated be governed by the laws of England.

CLAIMS

The Customer shall inspect the goods and equipment immediately on delivery and shall within three days of such inspection give notice in writing to the Company of any matter or thing by reason whereof it is alleged that the goods are not in accordance with this Contract. If the Customer shall fail to give notice these said goods and equipment shall be deemed to be in all respects in accordance with this Contract.

RETURNS

Goods supplied in accordance with Customer orders cannot be accepted for return without our written consent. If approval is given a handling charge will be made. Returned goods must be confirmed and carriage paid.

GUARANTEE

Our products are guaranteed for a period of 12 months from date of invoice against electrical breakdown or mechanical failure resulting from defective materials and/or workmanship providing the breakdown or failure is not due to misuse or operation under adverse conditions. Any unit proving faulty and covered by the provisions of this guarantee must be returned to our works complete carriage paid, for examination when it will be repaired or replaced at our option, stating the relevant sales invoice no. Units that have been dismantled, or cables that have been cut or removed, are exempt from this guarantee.