Ensure the transparent cover is in place over the PCB
Ensure the earth continuity strap is in place in the deep base.

**Do’s**

- Ensure the transparent cover is in place over the PCB
- Ensure the earth continuity strap is in place in the deep base.

**Don’ts**

- Don’t flush mount the base
- Don’t have excessive incoming cable slack
- Don’t mount the device above obstructions, such as shelves, that can obstruct the IR remote control
- Don’t install the device such that the audible and visual outputs are obstructed
- Don’t paint the device enclosure.

### Installation

1. Drill or knockout the required cable entry points on the Base.
2. If using the deep base option and IP55C protection is required, then stick on the circular wall gasket on to the centre back of the base.
3. Secure the Base to the wall whilst ensuring Top of the Base is in correct orientation.
4. Terminate the cable at the entry point leaving no more than 10cm (4”) tail wire length for connection.
5. Ensure the transparent cover is in place over the PCB. Connect the wires to the terminal block, see Wiring.
6. Close the main assembly to the base.

### Terminal block for retrofit installation of System S²

#### Do’s and Don’ts

**Do’s**

- Ensure your addressable system can accept S² products, if in doubt contact your supplier
- Use correct method to open and close the device
- Mount the device in correct orientation with “TOP” uppermost, to allow remote control operation
- Fit the wall gasket first when installing the deep base if IP55C protection is required

**Don’ts**

- Don’t paint the device enclosure.
- Don’t flush mount the base
- Don’t have excessive incoming cable slack
- Don’t mount the device above obstructions, such as shelves, that can obstruct the IR remote control
- Don’t install the device such that the audible and visual outputs are obstructed
- Don’t paint the device enclosure.

### Do’s and Don’ts

- Do’s:
  - Ensure your addressable system can accept S² products, if in doubt contact your supplier
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  - Don’t have excessive incoming cable slack
  - Don’t mount the device above obstructions, such as shelves, that can obstruct the IR remote control
  - Don’t install the device such that the audible and visual outputs are obstructed
  - Don’t paint the device enclosure.

### Wiring

- **2-way device**
  - Earth to metal box
  - Note: The 0V terminals in the terminal plate are electrically connected together.

- **3-way device**
  - Analogue Addressable fire panel
  - Loop circuit
  - Note: The 0V terminals in the terminal plate are electrically connected together.
Operation of sound and strobe light

The S3 devices on each loop circuit of the fire panel are set up during commissioning. The devices are set up to operate the sound and strobe light output in accordance with site specific evacuation procedures. In the event of a fire the appropriate S3 device in the system will output standard tone alarm signals 1, 2 or 3:

- Signal 1 is at 0.5Hz strobe output
- Signal 2 is at 1Hz strobe output
- Signal 3 is at 1Hz strobe output

The sound configurations of the three signals are held in the panel’s memory.

### Signals

<table>
<thead>
<tr>
<th>Signal</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal 1*</td>
<td>Intermittent tone 970Hz @ 1Hz</td>
</tr>
<tr>
<td>Signal 2*</td>
<td>Alternating tone 800/970Hz @ 2Hz</td>
</tr>
<tr>
<td>Signal 3*</td>
<td>High Tone (Continuous 970Hz)</td>
</tr>
</tbody>
</table>

The Signals marked with an * are LPCB approved.

### Technical data

#### Sound output for standard tone (levels given are typical values with measurement taken at 90° at 1m anechoic - fast response) #

- Low profile S3 - 100dBA +/- 3dBA
- System S3 - 103dBA +/-3dBA

#### Panel tones of signals 1, 2 and 3

- Configurable at the panel

#### Standard

- EN54:3:2003 (Sounder only)
- EN54:17:2005

#### Strobe flash rate

- Signal 1 - 0.5Hz
- Signal 2 - 1Hz
- Signal 3 - 1Hz

#### Strobe light output with red / amber lens

equivalent to 3W Xenon flasher

#### Loop loading factors

<table>
<thead>
<tr>
<th></th>
<th>per device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard tone</td>
<td>5</td>
</tr>
<tr>
<td>Standard tone red</td>
<td>13</td>
</tr>
<tr>
<td>Standard tone white</td>
<td>37</td>
</tr>
</tbody>
</table>

#### Operating voltage

- Range: 33V to 41V

#### Terminal size

- 2.5mm² - maximum

#### IP rating

- with deep base: IP55C
- with shallow base: IP11C

#### Enclosure colour

- White and Red - (with red, amber or white translucent lens cover for the Strobe)

#### Enclosure material

- Flame retardant ABS (Strobe cover is polycarbonate)

The plastic enclosures meet the flammability requirements of ISO 1210:1992 Class FH-2.

#### Weight

- 0.3Kg approximate

#### Operating temperature

- -10°C to +50°C

#### Storage temperature

- -20°C to +70°C

#### Relative humidity (non condensing)

- up to 90%

#### TR operating distance (used for setting volume)

- 3m

#### EN54-17 data

- Vmax 42V
- If max 0.4A
- Vnom 40V
- If max 1A
- Vmin 24V
- If max 4mA
- VSO max 50.6V
- ZC max 112mΩ
- VSO min 9.8V

The addressable S3 products are fully synchronised on the same fire panel.

### Note:

If you have a sounder only product then ignore the strobe information given.

Information on minimum sound output levels to include polar dispersion is covered in technical note TECH6310_029, available on request from the manufacturer.

### Compatibility

At the time of releasing this data sheet the S-Cubed Mark II devices were compatible for installation on the loop circuits of fire alarm system based on:

- EN54-17 data

#### EN panels

<table>
<thead>
<tr>
<th>Card</th>
<th>Vigilon 4 Loop</th>
<th>Vigilon Compact VA</th>
<th>Vigilon 4-6 Loop</th>
<th>All panels</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCC</td>
<td>≥ 24.30</td>
<td>≥ 24.30</td>
<td>≥ 24.30</td>
<td>≥ 24.37</td>
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<tr>
<td>MCB</td>
<td></td>
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</tr>
<tr>
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#### BS panel

<table>
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<tr>
<td>MCC</td>
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<td>LPC</td>
<td>≥ 23.90</td>
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Gent by Honeywell (Novo Systems Limited)
Manufactured by: Honeywell Life Safety Systems, 140 Waterside Road, Hamilton Industrial Park, Leicester LE5 1TN, United Kingdom

Technical data

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Intended for use in Fire detection and fire alarm systems in and around buildings


For details see website www.gent.co.uk

3EEE Symbol

At the end of their useful life, the packaging, fuel and batteries should be disposed of via a suitable recycling centre and in accordance with national or local legislation.

At the end of their useful life, the packaging, fuel and batteries should be disposed of by the end user.

Gent by Honeywell reserves the right to revise this publication from time to time and make changes to the content hereof without obligation to notify any person of such revisions of changes.

Gent Industrial Park, Waterside Road, Leicester LE5 1TN, UK
Website: www.gent.co.uk
Telephone +44 (0) 116 246 2000 Fax (UK): +44 (0)116 246 2300