



# Installation instructions

Vigilon Compact panel based Fire detection and alarm system





## Contents

Contents		Power supply	18
Notes	4	Panel installation	19
Installation	4	Mounting & cable entry points	20
Second fix	4	How to surface mount the panel	20
Fixture and fittings	4	How to semi-flush mount the	
As fitted drawings	4	control panel	21
Cable type and routing	4	Fitting the inner door	22
Fire sensor covers	4	Cable termination on enclosure	23
Earth continuity	5	Wiring test	23
Power supply	5	Mains supply	24
Mains supply	5	Removable terminal block	25
Local Manual Call Point	5	Terminals for external circuits on	
EN54 information	6	Master Control Board	25
Optional functions with requirements	_	Device loop circuits	26
of European standard	6	Master alarm circuits	27
System wiring	7	Clean contacts	27
Cable separation	7	Auxiliary relay circuits	28
Lightning protection	7	Monitored input circuit	29
Cables	8	RS232 Ports	29
Requirements of cables	8	USB Port	30
Mains Supply cable	8	Connecting a thermal printer	30
Repeat indicator to panel cable	8	Repeat indicator panel	31
Loop cables	9	Network wiring	32
Enhanced loop cables	9	Network cable screen continuity	32
Standard loop cables	9	How to minimise cross talk	32
2.5mm <sup>2</sup> Loop cable	9	Network card connections	33
Network cables	10	Vigilon Compact Network	33
Enhanced Network cables	10	Network wiring	34
Standard Network cables	10	On completion of panel installation	35
Loop circuit design	12	S-Quad Sensors	36
Loop Card	12	Base	36
Post March 2014 Loop Card	12	Base Gasket	36
Condition of use	12	Indicators	36
Battery Standby and Loop load	12	Dust Cover	36
calculator tool	12	Siting	37
Loop Cable length	12	Do's and Don't	37
Loop device load and length	12	Metal back box	38
calculations for 2Km loop card	12	In - Out wiring to S-Quad bases	38
What are Lumped and	12	Programmable input/output	39
Distributed alarm device loads?	13	Tools for S-Quad	40
Distributed alarm device load	13	To remove an S-Quad	40
Lumped alarm device load	13	To fit an S-Quad	40
Vigilon Loop Diagnostic tool	13	To fit a dust cover	40
Typical Vigilon Compact System	14	To remove a dust cover	40
Vigilon Compact panel	15	Vigilon compact parts	41
Features	15		
Technical data	16		
Control panel	16		
Solition parior			

### Preface

This is the third issue of the Installation instructions for the Vigilon Compact panel having 2Km loop card. It covers the approval of 60hz mains frequency, battery charge current data and fire alarm routing options.

These instructions must be read in conjunction with BS 5839: Part 1, which is the Code of Practice for design, installation, commissioning and maintenance of systems in non-domestic premises.

### Associated Documents

- Vigilon compact panel based system Operating instructions
- Log book

### Conventions



This is a note to highlight important text that is normally hidden in the main text.



This is either a caution to prevent damage to the equipment or a warning to inform of dangerous conditions that may result in injury or death.

# Abbreviations

ac	Alternating current
dc	Direct current
EOL	End of line
EP	Environmentally protected
ESD	Electrostatic discharge
FARE	Fire Alarm Routing Equipment
FPE	Fire Protection Equipment
I/F	Interface
IO or I/O	Input Output
IP	Ingress protection
LCD	Liquid crystal display
LED	Light emitting diode
LPCB	Loss prevention council certification board
MCB	Master control board (CARD 0)
MCP	Manual call point
MICC	Mineral insulated copper cable
N/C	Normally closed
N/O	Normally open
OC or O/C	Open circuit
PCB	Printed circuit board
PSU	Power supply unit
QB	Quick blow (fuse)
SC or S/C	Short circuit
T	Anti-surge (fuse)

## **Notes**

The power-up of the control panel and commissioning of the system is done by the Servicing organisation.

#### Installation

It is recommended that the installer follow the general requirements of BS 5839: Part 1: 2013, which is the code of practice relating to fire detection and alarm systems for buildings. The installer must follow the relevant parts of BS7671: 2008 Requirements for Electrical installations, IEE wiring regulations 17th edition if installation is in the United Kingdom.

### Second fix

To prevent the possibility of damage or dirt degrading the performance or appearance of the products, the installation of second fix items should be delayed until all major building work in the area is complete.



The installation of all outstanding parts and the panel power up is usually carried out during system commissioning.

## Fixture and fittings

It is the installers responsibility to provide adequate fixtures and fittings for the type of construction surface onto which a product is to be installed, whilst utilising the fixing points on the respective product. As an aid to this decision, the weight and overall size of each full assembly together with implications on cable entries and routing should be taken into consideration.



All these procedures assume that the cable, gland, steel box (BESA box) and other related accessories are provided by the installer.

## As fitted drawings

The installer should acquire site specific information from the interested parties, for details on the location of products for installation. The acquired information together with this guide and the relevant standards should be used to assist the work.

Each product assembly can be identified from its package label. The contents of all packages should be checked for any discrepancies.

### Cable type and routing

Appropriate attention must be given to ensure the correct cable type is installed in accordance with 'as fitted drawings', site specific information and recommendations of

BS 5839 Part 1 : 2013. The cables must be installed using cable manufacturers recommended fixing and accessories, see list of approved cables.

#### Fire sensor covers

Each fire sensor may be supplied with a plastic dust cover. If supplied, the cover must be fitted to prevent dust and dirt from the building work contaminating the fire sensor.

### Earth continuity

All earth connection points should be clean to provide a good electrical conductivity path. To maintain the earth continuity: all earth leads and fittings provided should be installed. The loop cable screen must be continued through each system device on the loop circuit, whether the earth is connected to the device or not.



Do not use any part of building structure for earthing.

Some of the system products having metal enclosures have zinc coating around the cable termination points, the coating provides a good electrical conductivity path for cable earth termination. The zinc coating on metal enclosures should not be damaged. Any damage will expose bare metal, which can corrode and make a poor earth connection.

## Power supply

The power to the system is derived from the mains and battery supplies. Before removal of a card or disconnection of cable from the panel ensure both mains and battery supplies are disconnected.

## Mains supply

Mains supply to any fire alarm control and indicating equipment must be via an unswitched 5A fused spur unit. A disconnect device must be provided to disconnect both poles and must have a minimum gap of 3mm. The disconnect device should be available as part of the building installation and must be easily accessible after installation is complete.



All mains powered equipment must be earthed.

### Local Manual Call Point

To comply with the requirements of *EN54-2: 1997* a conventional manual call point must be installed near the Control panel. The call point must be wired to the monitored line input of the control panel. During commissioning of the system the Command Build No 250 associated with the monitored line input must be set up to evacuate all sectors without delay.



Failure to install and configure a local manual call point in the manner described above when delays are set up on the system will result in the panel not complying to *EN54-2 : 1997*.

# **EN54** information

# Optional functions with requirements of European standard

The Control panel complies with the requirements of *EN54-2*: 1997. In addition to the basic requirements of the standard the panel conforms to the following optional clauses:

Clause	Description	
7.8	Output to fire alarm devices	
7.9	Control of Fire Alarm Routing Equipment FARE (options with requirements) sub clause: 7.9.1 Output to FARE	
7.10	Output to Fire Protection Equipment FPE (options with requirements) sub clause: 7.10.1 Output Type A	
7.11	Delays to action outputs	
7.12	Dependencies on more than one alarm signal (options with requirements) sub clause: 7.12.3 Type C dependency	
8.3	Fault signals from point	
9.5	Disablement of each addressable point	
10	Test condition	

# System wiring

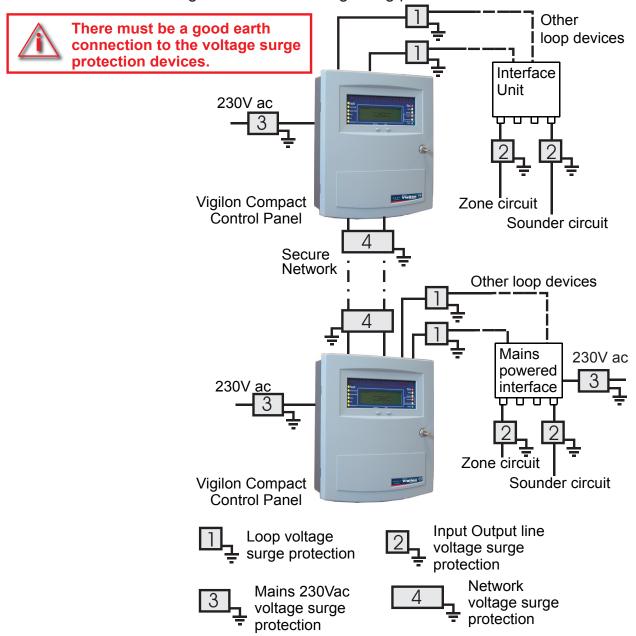
If instructed, the installer may need to terminate as well as connect the cables to the appropriate terminal blocks.

#### **Cable separation**

Where the outgoing and return cables of a loop circuit covers more than the equivalent of one zone they must not run together, for example, either close to the Control Panel or in a service duct. There should be as much physical separation as possible between the cables and the mechanical protection of the cable should be to a particularly high standard. This is to minimise the risk of accidental damage to both cables.

#### **Lightning protection**

Where a loop cable is mounted to an external wall or between two buildings then consideration should be given to the use of lightning protection devices.



# **Cables**

### Requirements of cables

The British Standard BS 5839 Part 1: 2013 Code of practice for system design, installation, commissioning and maintenance states the requirements for standard and fire resisting cables in Clause 26.2 section d & e.

- "d) Standard fire resisting cables should meet PH 30 classification when tested in accordance with EN50200 and maintain circuit integrity if exposed to the following test:
- a sample of the cable is simultaneously exposed to flame at a temperature of 830°C 0+40°C and mechanical shock for 15min, followed by simultaneous exposure to water spray and mechanical shock for a further 15min.
- e) Enhanced fire resisting cables should meet the PH120 classification when tested in accordance with EN 50200 and maintain circuit integrity if exposed to the following test:
- a single sample of the cable is simultaneously exposed to flame at a temperature of 930°C 0+40°C and mechanical shock for a period of 60min, followed by simultaneous exposure to water spray and mechanical shock for a further 60min."

The cables listed in this manual are those that have been tested/assessed for EMC compliance with the system products.

### Mains Supply cable

The mains supply cable must be a standard fire resisting type and should meet PH30 classification, such as standard or enhanced cable.

### Repeat indicator to panel cable

A maximum of 1Km cable distance is allowed between Control Panel and Repeat indicator panel

■ Belden No. 9842 EIA RS485 Applications, O/A Beldfoil® Braid having two twisted pairs

## Loop cables



There is a maximum limit of 2Km loop cable usage allowed per loop circuit. This maximum limit is the sum of the cable used on main loop circuit, spurs off main loop circuit, plus cable runs to all input / output lines off loop powered interface units installed on the same loop.

There is a further maximum limit of 100m cable run allowed per input/output line off loop powered interface unit.

The device loop cable carries both data and power, therefore its selection is important. Note the following:

- In countries where the European EMC directive is in force, only EMC Compliant cables are to be used.
- The loop cable usage must not exceed 2Km. This includes the cable used on main loop and spur circuits.
- Single pair cable must be used. It is NOT permissible to run mixed loops or outgoing and return pairs in a multi core cable, due to inadequate separation and possible electrical interference problems.
- Each core of the loop cable must be 1.5mm² cross section area.
- the cable screen must be capable of being earthed at each system device (outstation).
- Red is the preferred cover sheath for fire applications.
- The specified loop circuit cables are also suitable for wiring master alarm, auxiliary relay, input/output lines and mains supply.

### **Enhanced loop cables**

Approved cables for loop wiring (EMC Compliant)

- Draka Firetuf FT120 Enhanced -FTPLUS2EH1.5RD (formally Firetuf FT Plus)
- Datwyler Pyrofil Enhanced
- Mineral insulated cable (MICC) to BS6207:Part 1
- Prysmian (previously Pirelli) FP PLUS \*

#### **Standard loop cables**

Approved cables for loop wiring (EMC Compliant)

- AEI Cables FIRETEC \*
- Alcatel cable PYROLON E \* distributed by Winstonlead
- BICC Pyrotenax FLAMESIL FRC \*
- Cavicel SpA FIRECEL SR 114H \* distributed by Cables Britain
- Datwyler Pyrofil Standard \* (previously LIFELINE)
- Draka Firetuf EMC Standard 1.5mm² FTEMC2EH1.5RDR
- Draka Firetuf FTES2EH1.5 (previously FTZ2E1.5 FIRETUF OHLS \*) fire resistant data cable
- Huber & Suhner RADOX FR \*
- Prysmian (formally Pirelli) FP200 FLEX \*
- Prysmian (formally Pirelli) FP200 GOLD \*
- Raydex CDT FG950 \*

### 2.5mm<sup>2</sup> Loop cable (2.5Km loop)



The cable reference for a 2.5mm² loop cable is similar to 1.5mm² cable, for example the cable referece for a Draka Firetuf 1.5mm² is FTPLUS2EH1.5 and for a 2.5mm² it is FTPLUS2EH2.5, consult cable supplier.

For cables marked with an \* see note on the next page.

The cables marked \* utilise laminated aluminium tape with a tinned drain wire for electrostatic screening. Under certain environmental conditions galvanic action may take place between the aluminium and the drain wire. This will severely degrade EMC performance as the foil to drain wire impedance will increase. Armoured variants of these can also be used for wiring a loop circuit.

### Network cables

#### **Enhanced Network cables**

Approved cables for network wiring (EMC Compliant)

- Draka Firetuf FT120 Enhanced FTPLUS3EH1.5 (Previously Firetuf FT Plus)
   1.2Km maximum Panel to Panel or Panel to Network node cable distance
  - 3 Cores, each having 1.5mm<sup>2</sup> cross section area
- Fireshield Enhanced FSN G2000
   1.2Km maximum Panel to Panel or Panel to Network node cable distance
  - 3 Cores (1 pair + 1) and earth
  - each core having 1mm<sup>2</sup> cross section area
- Mineral insulated copper cable
  800m maximum Panel to Panel or
  Panel to Network node cable distance.
  - BS6207: Part 1
  - 3 parallel cores
  - having continuous metal sheath encapsulating
  - each core having 1.5mm<sup>2</sup> cross section area
  - a red cover sheath (preferred for alarm applications)

- Prysmian (formally Pirelli) FP Plus\*
   1.2Km maximum Panel to Panel or
   Panel to Network node cable distance
  - 3 Cores each having 1.5mm<sup>2</sup> cross section area

#### **Standard Network cables**

Approved cables for network wiring (EMC Compliant)

■ Belden Armoured equivalent

This cable being a two pair cable to BS5308:Part 1 (type 2) 0.5mm<sup>2</sup> (16/0.2mm).

600m maximum Panel to Panel or Panel to Network node cable distance.

- Belden No 9729 (UL Style 2493) 1.2Km maximum Panel to Panel or Panel to Network node cable distance
  - 2 twisted pairs
  - Each pair individually screened 24AWG (7 strands x 32 AWG)
  - Capacitance between conductors 39.4pF/m at 1kHz
  - Capacitance conductor to screen 72.2pF/m at 1kHz
  - Temperature range -30°C to +60°C
- Belden No. 9842 EIA RS485
  Applications, O/A Beldfoil® Braid
  1.2Km maximum Panel to Panel or
  Panel to Network node cable distance
  Must have following characteristics:
  - 2 twisted pairs
  - 24AWG (7 strands x 32 AWG) conductors
  - Characteristic impedance -120ohms
  - Capacitance between conductors -42pF/m at 1kHz
  - Capacitance conductor to screen -75.5pF/m at 1kHz

Standard network cables continued on the next page...

#### ■ Belden TR No. 89729

(Teflon jacketed)

1.2Km maximum Panel to Panel or Panel to Network node cable distance

- 2 twisted pairs
- Each pair individually screened 24AWG (7 strands x 32 AWG)
- Capacitance between conductors 39.4pF/m at 1kHz
- Capacitance conductor to screen 72.2pF/m at 1kHz
- Temperature range up to 200°C

#### ■ Datwyler PYROFIL 8750-U/R \*

1.2Km maximum Panel to Panel or Panel to Network node cable distance

- 4 cores
- each core having 1.5mm<sup>2</sup> cross section area

#### ■ Delta Crompton Firetuf FDZ1000\*

1.2Km maximum Panel to Panel or Panel to Network node cable distance

3 cores

#### ■ Doncaster Cables Firesure Plus\*

1.2Km maximum Panel to Panel or Panel to Network node cable distance

- 4 Cores (2- pair plus earth)
- each core having 1.5mm<sup>2</sup> cross section area

#### ■ Huber & Schner Radox series FR

communication cable\*

1.2Km maximum Panel to Panel or Panel to Network node cable distance

- 3 cores twisted triad screened
- 1.5mm² (7/0.42 stranded) conductors
- Nominal impedance 200 ohms (1KHz)
- Capacitance conductors 110pF/m (1KHz)
- Capacitance screen to core 210pF/m (1KHz)
- Fire resistance tested to BS6387 category CWZ and IEC 331.

#### ■ Prysmian (formally Pirelli) FP200 Flex\*

800m maximum Panel to Panel or Panel to Network node cable distance

3 Cores, each having 1.5mm<sup>2</sup> cross section area

#### ■ Prysmian (formally Pirelli) FP200 Gold\*

1.2Km maximum Panel to Panel or Panel to Network node cable distance

- 3 Cores
- each core having 1.5mm<sup>2</sup> cross section area

### ■ Prysmian (formally Pirelli) FP 400 Armoured

800m maximum Panel to Panel or Panel to Network node cable distance

 4 Cores, each stranded 1.5mm<sup>2</sup> cross section area

# Loop circuit design



It is important that redundancy is built into the system to accommodate for future expansions and change of area usage in the protected premises.

The number of devices on a loop circuit can be limited by the total number of addresses available, the electrical load on the circuit, the maximum cable length and other geographical considerations.

- A loop circuit must not cover more than 10,000m² of floor area of a protected site
- In total a maximum of 200 devices are allowed per loop circuit.

# **Loop Card**

### Post March 2014 Loop Card

The panel is supplied with one Post March 2014 Loop Card (COMPACT-LPC-EN). If more than one loop is required then acquire additional card for the second loop.

#### **Condition of use**



The Loop Card (COMPACT-LPC-EN) must never be fitted as a replacement card in a Vigilon Compact panel where 3400 devices are installed on its loop circuits.

- Up to 2Km loop length is possible with S4 and S3 Mark 2 devices installed on a loop circuit. In this case a rough method for calculating the loop load and loop cable length is shown in the leaflet for the loop card. For a precise loop load and battery standby calculation use the 'Battery Standby and Loop load calculator' tool.
- Up to 1Km loop length is possible with 34000 devices or a mix of 34000, S4 and S3 devices installed on a loop circuit. Again for precise loop load and battery standby calculation use the 'Battery Standby and Loop load calculator' tool.

## Battery Standby and Loop load calculator tool

The 'Battery standby and loop load calculator' tool can be downloaded from www.gentexpert.co.uk website by registered users.

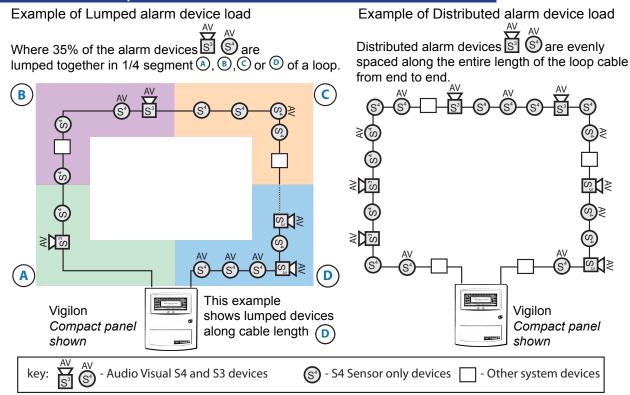
### Loop Cable length

The loop cable length is defined as the sum of the length of cable used on the main loop plus that used on all the spur circuits off the main loop having system devices.

## Loop device load and length calculations for 2Km loop card

There can be up to 200 devices on a loop cable of up to 2Km length when using Loop Card (COMPACT-LPC-EN), where both device count and cable length are dictated by the number of alarm devices on the loop and how they are positioned, distributed or lumped together.

### What are Lumped and Distributed alarm device loads?



#### Distributed alarm device load

Where the alarm load is distributed along the entire length of the loop using:

- 1.5mm² cable, the loop length can be up to 2Km with up to 200 devices
- 2.5mm<sup>2</sup> cable, the loop length can be up to 2.5Km with up to 200 devices.

### Lumped alarm device load

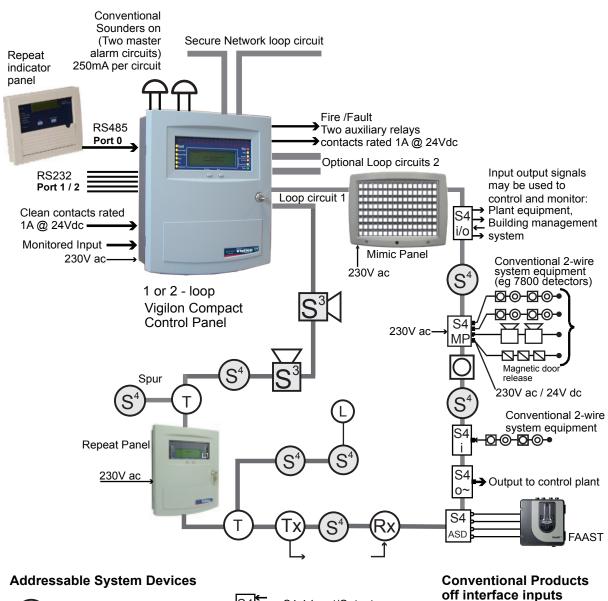
If the alarm devices are lumped together on a loop circuit then there is a trade off between the number of alarm devices and loop cable length possible, see also loop card leaflet which can be downloaded by registered users from www.gentexpert.co.uk.

## Vigilon Loop Diagnostic tool

The Vigilon Loop Diagnostic Tool can be used to diagnose loop circuits driven by Post March 2014 Loop Cards (COMPACT-LPC-EN) fitted in the panel, this is normally done during commissioning of the system.

### Typical Vigilon Compact System

The loop allows wiring of addressable devices like fire sensors, alarm sounders, call points, interface units, mimic and repeat panels, a combined maximum of up to 200 devices are allowed per loop circuit.





S-Quad Sensor Speech Sounder & Strobe



S-Cubed Voice enhanced Speech, Sounder, Strobe Unit



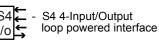
Manual Call Point



T Breaker



Beam sensor Transmitter and receiver



S4 1-Input loop powered interface



S4 1-Output + Confirmation input loop powered interface



S4 Mains switching output loop powered interface



mains powered interface unit

S4 - Input/Output



S4 - Input/Output ASD interface unit

- Magnetic door release
- Alarm sounder
- Conventional Fire Detector
- Manual Call Point
- End of Line Unit

#### LED off S⁴ sensor



# **Vigilon Compact panel**





The Vigilon Compact panel is designed to meet the requirements of *EN54-2:1997* and *EN54-4:1997*. The panel can accommodate up to 2 loop circuits each up to 2Km in length that

can have Vigilon analogue addressable devices, like fire sensors, manual call points, interface units and repeat panels. A number of Compact panels can be connected together on a secure network loop to give control and indication of network system events at any panel. A panel gives local visual and audible indications of system events, via indicators and message display. An integral mains derived power supply provides power to the panel and loops and the integral batteries provides a standby supply for up to 24 hours plus 0.5 hour alarm. A lockable front door prevents unauthorised access to the fire alarm controls. The panel is designed for both flush and surface mounting and facilitates both rear and top cable entry points.

#### **Features**

- Analogue addressable fire detection and alarm control
- Supports up to two loop circuits each up to 2Km in length.
- Up to 200 addressable devices can be connected to a loop circuit, devices like sensors, call point, interface units, repeat and mimic panels
- Supports the connection of up to 31 panels in a secure loop network
- Two master alarm circuits
- RS485 (Port 0) to connect to repeat indicator panel(s)
- RS232 (Ports 1 and 2) to connect to external printer
- USB (Port 0) to connect to a Commissioning computer
- Two sets of auxiliary relay change over contacts configurable to operate with fire, fault or disablement event
- One set of clean voltage-free change over contacts that operate with master alarms
- Monitored input that actions a command build 250
- Standby supply to power the system via batteries for 24 hours plus 0.5 hour alarm load
- LCD with back light to display event information
- Integral 32 zone LEDs (with First fire flashing/steady options and an option to disable the integral zone indicators)
- LED lights for event indication
- Local audible buzzer for event announcement
- Push buttons for essential controls and menu driven commands
- Fire Alarm Routing Active and Fault/ Disable LED indications
- Two programmable control buttons U1 and U2.

# Technical data

# Control panel

Standard	Designed to EN54-2:1997 + A1:2006 (and include optional clauses 7.8, 7.9, 7.9.1, 7.10, 7.10.1, 7.11, 7.12.3, 8.3, 9.5 and 10)	
Approval	LPCB approved	
Panel dimensions in mm	height 403 x width 338 x depth 101	
Panel weight	8.6Kg approximately without batteries 1 - 12V 12Ah battery - 4Kg (2 batteries are required)	
Storage temperature	-10°C to +55°C	
Operating temperature	0°C to +45°C	
Relative Humidity	up to 90% (Non condensing) Temperature +5°C to +45°C	
Emission	BS EN 6100-6-3 : 2001 Residential, Commercial & Light Industry Class B limits	
Immunity	BS EN50130-4 : 1996 Alarm systems: Electromagnetic compatibility Product family standard: Immunity requirements for components of fire, intruder and social alarm systems	
Ingress Protection	IP31	
Colour	Door: Grey (Pantone 422) Backbox: Graphite Grey (RAL 7024)	
Plug in Card Card 1 Card 2	1st Loop processor card LPC (supplied) 2nd Loop processor card (optional) and Network card (optional)	
Devices per loop	A maximum of up to 200 addressable devices per loop	
Device labels	Each device can be given a 32 character label for identification to locate events in the system. Each MCP is restricted to 28 character label. Configurable option for long labels.	
Network Card	Supports the connection of up to 31 panels in a secure loop copper network, to give 1.2Km maximum between panels	
Clean contacts	1 set of voltage free change over contacts rated 1A @ 24Vdc, active with master alarms	
Auxiliary relays Aux relay 1	Voltage-free contacts rated 1A @ 24Vdc, 2 sets of change over contacts configured to operate immediately on a Fire event. The relay is normally de-energised	
Aux relay 2	1 set of change over contacts configured to operate immediately on a Fault event. The relay is normally energised	
	The relays can be re-configured to operate with Fire, Fault or Disablement event, with a maximum delay of up to 10 minutes and can operate in a normally energised or de-energised state.	
Master alarm circuits voltage and current, protection fuses	2 - (24 V nominal) 250 mA max per circuit MA1 - FS1 T250mAH250V (20 x 5mm) on MCB board MA2 - FS2 T250mAH250V (20 x 5mm) on MCB board	
Monitored input	A closed input triggers a command build number 250. The input is normally open.	

Ports Port 0 and fuse RS485 -Repeat indicator panel (PB15) (Mode: Repeat) Includes a 24V supply protected by FS3 Fuse 200mA TE5 on MCB  Port 1 and 2 RS232 -Printer (PB6) (Mode: Std, Printer, Universal or Ascom)  USB - (P16) Commissioning tool  The factory set baud rate for Port 0 it is 1200 and for Ports 1 & 2 it is 38400. Baud rate can be software reconfigured to another setting.  Display Display 8 lines by 40 character per line, back-lit, (Black characters on green background, liquid crystal display)  Internal sounder Announces Fire & Fault events, plus give key-press confirmation beep.  Indicators Fire (red) 32, Zones (red) hidden till lit, Verify (amber), FARE Active (red), FARE Fault/Dis (amber), Power (green), Fault (amber), Disablement (amber), System fault (amber), Power fault (amber), Sounder (amber), Test (amber) and Delay (amber)  Controls (with door open)Access level 1  Controls (with door open)Access level 2  Access level 2a Customer (Customer PIN)  Access level 3 Engineering (Engineers PIN)  Menus [Control], [Setup], [Information] and [Test Engineering] menus.  Logs Active Logs: Fire, Fault and Disablement Historic log: All events Event logs: Fault, Disablement, Warning, Supervisory, Exceptions and Historic fires. (up to 255 events)  Fire Log (up to 100 events)  24V supply FS3 T200mA (TE5) on MCB			
Baud The factory set baud rate for Port 0 it is 1200 and for Ports 1 & 2 it is 38400. Baud rate can be software reconfigured to another setting.  Display Display - 8 lines by 40 character per line, back-lit, (Black characters on green background, liquid crystal display)  Internal sounder Announces Fire & Fault events, plus give key-press confirmation beep.  Indicators Fire (red) 32, Zones (red) hidden till lit, Verify (amber), FARE Active (red), FARE Fault/Dis (amber), Power (green), Fault (amber), Disablement (amber), System fault (amber), Power fault (amber), Sounder (amber), Test (amber) and Delay (amber)  Controls (with door closed) Access level 1  Controls (with door open)Access level 2  Sound Alarms, Silence Alarms, Reset, Cancel Buzzer, Verify, F1-F4 keys, Menu On/Off key, Numeric keys, U1-U2 keys available if configured to perform site specific actions by triggering of CB251 and CB252  Access level 2a Customer (Customer PIN)  Access level 3 Engineering (Engineers PIN)  Menus [Control], [Setup], [Information] and [Test Engineering] menus.  Logs Active Logs: Fire, Fault and Disablement Historic log: All events Event logs: Fault, Disablement, Warning, Supervisory, Exceptions and Historic fires. (up to 255 events)  Fire Log (up to 100 events)	Ports Port 0 and fuse		
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Display Display - 8 lines by 40 character per line, back-lit, (Black characters on green background, liquid crystal display)  Internal sounder Announces Fire & Fault events, plus give key-press confirmation beep.  Indicators Fire (red) 32, Zones (red) hidden till lit, Verify (amber), FARE Active (red), FARE Fault/Dis (amber), Power (green), Fault (amber), Disablement (amber), System fault (amber), Power fault (amber), Sounder (amber), Test (amber) and Delay (amber)  Controls (with door closed) Access level 1  Controls (with door open)Access level 2  Sound Alarms, Silence Alarms, Reset, Cancel Buzzer, Verify, F1-F4 keys, Menu On/Off key, Numeric keys, U1-U2 keys available if configured to perform site specific actions by triggering of CB251 and CB252  Access level 3  Engineering (Engineers PIN)  Menus [Control], [Setup], [Information] and [Test Engineering] menus.  Logs Active Logs: Fire, Fault and Disablement Historic log: All events Event logs: Fault, Disablement, Warning, Supervisory, Exceptions and Historic fires. (up to 255 events)  Fire Log (up to 100 events)	Port 3	USB - (P16) Commissioning tool	
Internal sounder  Announces Fire & Fault events, plus give key-press confirmation beep.  Indicators  Fire (red) 32, Zones (red) hidden till lit, Verify (amber), FARE Active (red), FARE Fault/Dis (amber), Power (green), Fault (amber), Disablement (amber), System fault (amber), Power fault (amber), Sounder (amber), Test (amber) and Delay (amber)  Controls (with door closed) Access level 1  Controls (with door open)Access level 2  Sound Alarms, Silence Alarms, Reset, Cancel Buzzer, Verify, F1-F4 keys, Menu On/Off key, Numeric keys, U1-U2 keys available if configured to perform site specific actions by triggering of CB251 and CB252  Access level 2a  Customer (Customer PIN)  Menus  [Control], [Setup], [Information] and [Test Engineering] menus.  Logs  Active Logs: Fire, Fault and Disablement Historic log: All events  Event logs: Fault, Disablement, Warning, Supervisory, Exceptions and Historic fires. (up to 255 events)  Fire Log (up to 100 events)	Baud		
Indicators  Fire (red) 32, Zones (red) hidden till lit, Verify (amber), FARE Active (red), FARE Fault/Dis (amber), Power (green), Fault (amber), Disablement (amber), System fault (amber), Power fault (amber), Sounder (amber), Test (amber) and Delay (amber)  Controls (with door closed) Access level 1  Controls (with door open)Access level 2  Sound Alarms, Silence Alarms, Reset, Cancel Buzzer, Verify, F1-F4 keys, Menu On/Off key, Numeric keys, U1-U2 keys available if configured to perform site specific actions by triggering of CB251 and CB252  Access level 2a  Customer (Customer PIN)  Access level 3  Engineering (Engineers PIN)  Menus  [Control], [Setup], [Information] and [Test Engineering] menus.  Logs  Active Logs: Fire, Fault and Disablement Historic log: All events Event logs: Fault, Disablement, Warning, Supervisory, Exceptions and Historic fires. (up to 255 events) Fire Log (up to 100 events)	Display		
FARE Active (red), FARÉ Fault/Dis (amber), Power (green), Fault (amber), Disablement (amber), System fault (amber), Power fault (amber), Sounder (amber), Test (amber) and Delay (amber)  Controls (with door closed) Access level 1  Controls (with door open)Access level 2  Sound Alarms, Silence Alarms, Reset, Cancel Buzzer, Verify, F1-F4 keys, Menu On/Off key, Numeric keys, U1-U2 keys available if configured to perform site specific actions by triggering of CB251 and CB252  Access level 2a  Customer (Customer PIN)  Menus  [Control], [Setup], [Information] and [Test Engineering] menus.  Logs  Active Logs: Fire, Fault and Disablement Historic log: All events Event logs: Fault, Disablement, Warning, Supervisory, Exceptions and Historic fires. (up to 255 events)  Fire Log (up to 100 events)	Internal sounder		
Controls (with door open)Access level 2  Sound Alarms, Silence Alarms, Reset, Cancel Buzzer, Verify, F1-F4 keys, Menu On/Off key, Numeric keys, U1-U2 keys available if configured to perform site specific actions by triggering of CB251 and CB252  Access level 2a  Customer (Customer PIN)  Access level 3  Engineering (Engineers PIN)  Menus  [Control], [Setup], [Information] and [Test Engineering] menus.  Logs  Active Logs: Fire, Fault and Disablement Historic log: All events  Event logs: Fault, Disablement, Warning, Supervisory, Exceptions and Historic fires. (up to 255 events)  Fire Log (up to 100 events)	Indicators	FARE Active (red), FARE Fault/Dis (amber), Power (green), Fault (amber), Disablement (amber), System fault (amber), Power fault	
open)Access level 2  F1-F4 keys, Menu On/Off key, Numeric keys, U1-U2 keys available if configured to perform site specific actions by triggering of CB251 and CB252  Access level 2a  Customer (Customer PIN)  Access level 3  Engineering (Engineers PIN)  [Control], [Setup], [Information] and [Test Engineering] menus.  Logs  Active Logs: Fire, Fault and Disablement Historic log: All events  Event logs: Fault, Disablement, Warning, Supervisory, Exceptions and Historic fires. (up to 255 events)  Fire Log (up to 100 events)	•	Next and Previous buttons operable during Fire condition only	
Access level 3  Engineering (Engineers PIN)  Menus  [Control], [Setup], [Information] and [Test Engineering] menus.  Logs  Active Logs: Fire, Fault and Disablement Historic log: All events Event logs: Fault, Disablement, Warning, Supervisory, Exceptions and Historic fires. (up to 255 events) Fire Log (up to 100 events)	•	F1-F4 keys, Menu On/Off key, Numeric keys, U1-U2 keys available if configured to perform site specific actions by triggering of CB251	
Menus  [Control], [Setup], [Information] and [Test Engineering] menus.  Active Logs: Fire, Fault and Disablement Historic log: All events Event logs: Fault, Disablement, Warning, Supervisory, Exceptions and Historic fires. (up to 255 events) Fire Log (up to 100 events)	Access level 2a	Customer (Customer PIN)	
Logs  Active Logs: Fire, Fault and Disablement Historic log: All events Event logs: Fault, Disablement, Warning, Supervisory, Exceptions and Historic fires. (up to 255 events) Fire Log (up to 100 events)	Access level 3	Engineering (Engineers PIN)	
Historic log: All events Event logs: Fault, Disablement, Warning, Supervisory, Exceptions and Historic fires. (up to 255 events) Fire Log (up to 100 events)	Menus	[Control], [Setup], [Information] and [Test Engineering] menus.	
24V supply FS3 T200mA (TE5) on MCB	Logs	Historic log: All events Event logs: Fault, Disablement, Warning, Supervisory, Exceptions and Historic fires. (up to 255 events)	
	24V supply	FS3 T200mA (TE5) on MCB	

## **Power supply**



Always use the recommended replacement batteries, as there is a risk of an explosion if incorrect battery is used.

Dispose of used batteries according to the manufacturer's instructions.

Standard	Designed to EN54-4:1997 + A1:2002 and A2:2006	
Mains supply voltage and fuses	230V -15% +10% 50Hz/60Hz protected by: FS3 T3.15AH250V Ceramic (20 x 5 mm) on PSU Input current - 0.6A	
Nominal supply voltage for master alarm circuits	24V ± 4V	
Battery circuit 'BAT1' fuse	FS1 T3.15A (TE5) on PSU board	
PSU volts & fuses 43V (quiescent) 24V	On PSU board: FS6 T1A (TE5) FS4 T1A (TE5)	
Battery	Batteries for the panel 2 x Powersonic 12V 12Ahr - (supplied) Model number: PS-12120 F1. The batteries provide 24 hours standby power and 30 minutes alarm, determined by loop loading, reference should be made to the Battery Standby and Loop Load calculator tool	
Lithium Battery	BATT3 on MCB. Type CR2032 3V cell. Replace only with the same or equivalent type battery.	
Storage temperature	-10°C to +55°C	
Operating temperature	0°C to +45°C	
Relative Humidity	up to 90% (Non condensing) Temperature +5°C to +45°C	
Indicators	Left LED (yellow): battery circuit 2 or 43V supply fault Centre LED (yellow): battery circuit 1, 24V supply Right LED (green): mains supply fault.	
Maximum current from battery without mains connected	3.15A	
EN54 Part 4 data I max a	126mA-> O/P 1 (43V) 43mA-> O/P 2 (27.5V) 29mA -> O/P 3 (5V)	
I max b	850mA -> O/P 1 (43V) 570mA -> O/P 2 (27.5V) 290mA -> O/P 3 (5V)	
I min	28mA -> O/P 1 (43V) 43mA -> O/P 2 (27.5V) 25mA -> O/P 3 (5V)	
UVLO Ri max	20.7V ± 0.4V 1.3R	



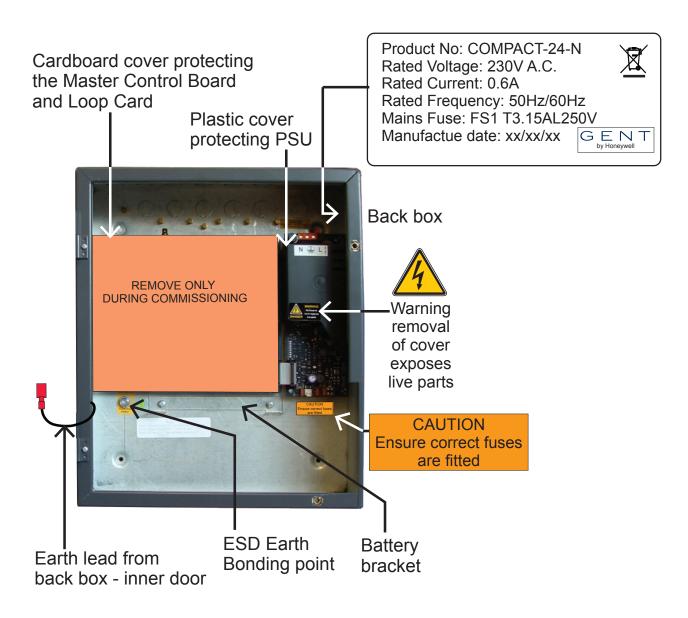
After panel power down hazardous voltages may still be present even when the indicators are extinguished.

# Panel installation

The Vigilon Compact Panel is supplied in parts, it is important to check the contents of each package:

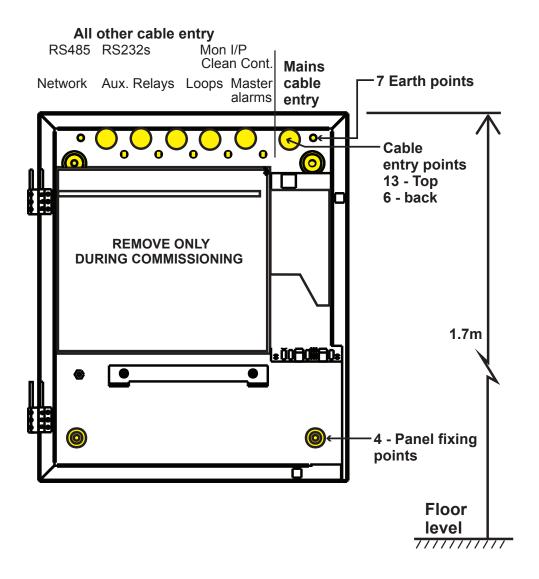
- Back box assembly
- Inner door assembly
- Outer door assembly
- 2 x 12V 12Ah Batteries

	Parts in the Spares pack	Qty
0	Fuse T3.15AL250V 20mm x 5mm	1
	Fuse T3.15A (TE5)	2
	Fuse T1A (TE5)	2
	Fuse T200mA (TE5)	2
, 60/	10K Ohms Resistor	4
	Battery Link	1
	Battery Lead	1



## Mounting & cable entry points

Any unused knockouts that have been removed should not be left open.



## How to surface mount the panel

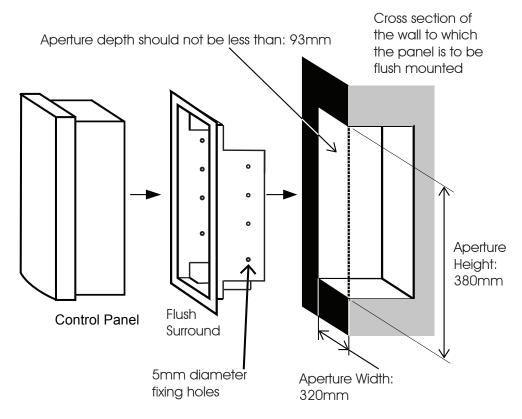
Using the four fixing points mount the backbox onto a flat wall using suitable fixings.



### How to semi-flush mount the control panel

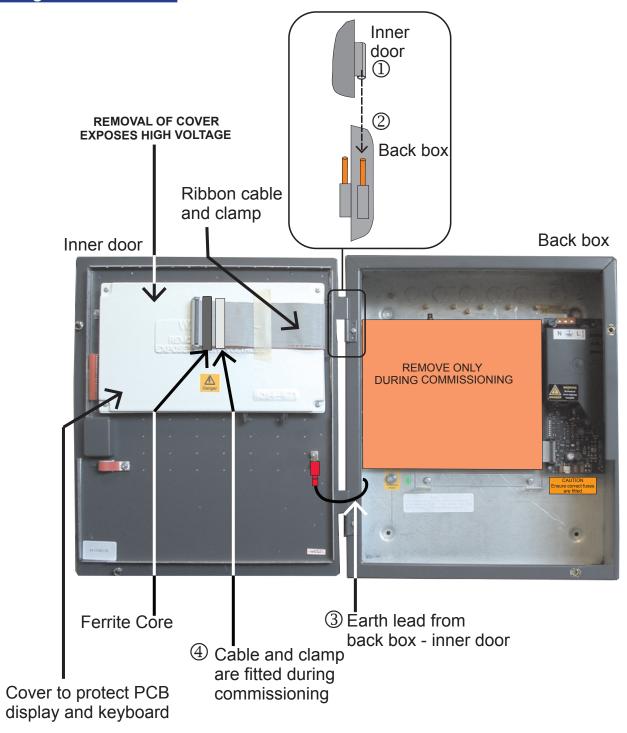
The control panel may be semi-flush mounted using a flush surround (COMPACT-FLUSH).

A stainless steel flush surround is available as an option (COMPACT-FLUSH-SS) and if fitted it requires a stainless steel door (VIG-RPT-DOOR-SS).

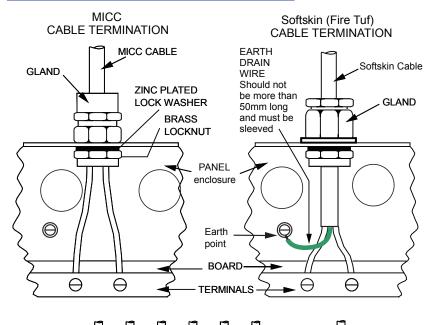


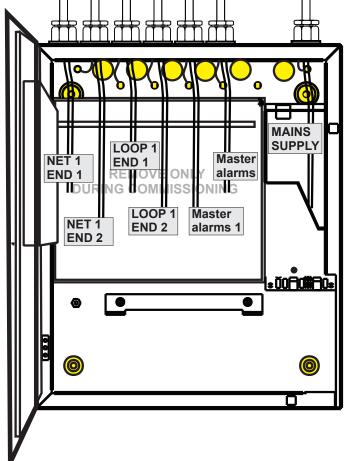
- a. Cut out an aperture in the wall to allow the flush surround to be fitted, see diagram for dimension of the aperture.
- b. Using the fixing holes on the flush surround, secure it into the aperture side walls.
- c. Knock out the appropriate top or rear cable points on the panel enclosure.
- d. Route the cables through the cable entry points into the panel and at the same time insert the panel into the flush surround.
- e. Fit the panel back box to the flush surround using the 4-off 5mm screws supplied with the flush surround.

# Fitting the inner door



### Cable termination on enclosure





The wire length between the cable termination and point of connection must be as short as possible. Cable earth drain wire, where applicable, must be connected to the nearest earth point.

Terminate each cable at the dedicated entry point on the enclosure, using the cable manufacturers recommended techniques.

Where cables are not required to be connected leave **400mm** tail wire length (unless otherwise specified) and mark each **core** identifying its final point of connection. Where the cable is required to be connected, ensure it is secure to the respective terminal.

## Wiring test



DO NOT undertake high voltage insulation tests WITH THE CABLES CONNECTED to the panel and system device terminals. Such a test may damage the electronics circuitry in loop devices and at the panel.

#### Mains supply

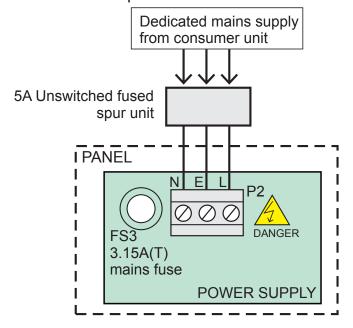


Ensure that the mains supply cable enters the panel through a dedicated cable entry, located adjacent to the mains terminal block and also ensure it is segregated from the loop wiring.



These fire alarm system products are not designed to be powered from IT Power systems.

All mains powered equipment must be earthed. The mains supply to the control panel must be via an unswitched 5A fused spur unit. A **disconnect device** must be provided to disconnect both poles and must have a minimum gap of 3mm. The disconnect device should be available as part of the building installation and must be easily accessible after the installation is complete.



The fused spur isolator cover should be marked:

#### FIRE ALARM - DO NOT SWITCH OFF

The fire alarm equipment's fused spur unit must be fed from a dedicated switch or protective device at the local mains supply distribution board.

#### Mains and battery supply connections

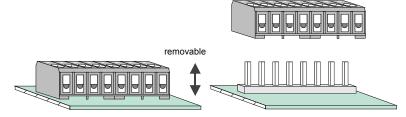
The mains and battery supply cables must be installed to the stage to facilitate the power up for commissioning, which is carried out by the Servicing organisation.



Where mains cable is to remain disconnected, its tail ends must be insulated to prevent dangerous conditions arising in the event of accidental switching On of the mains supply.

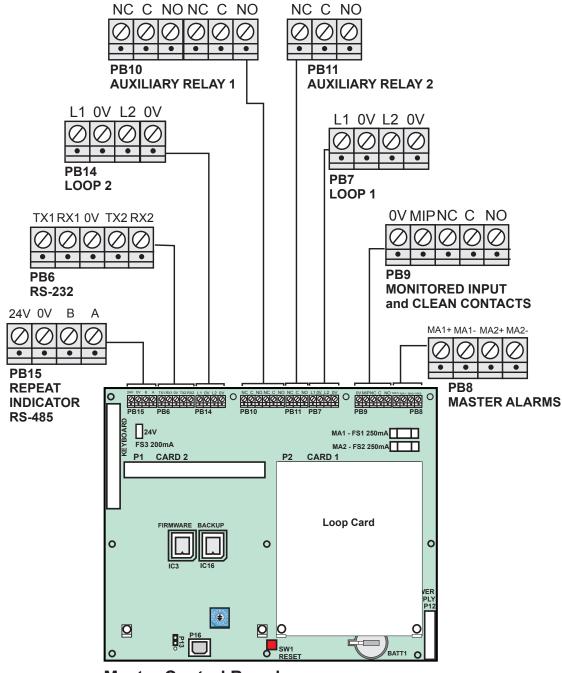
### Removable terminal block

To ease installation the terminal blocks on the Master Control Board can be unplugged from the board.



### Terminals for external circuits on Master Control Board

The Master Control Board (MCB) holds all the terminals for the connection of fire alarm loop circuits, master alarms, auxiliary relays, clean contacts, repeat indicator panel and monitored input.



**Master Control Board** 

### Device loop circuits

The two device loop circuits can each accept connection of addressable devices / outstations, up to 200 maximum per circuit. To maintain earth continuity on a loop, the loop cable screen must be continued through each system device, whether the earth is connected to a device or not.

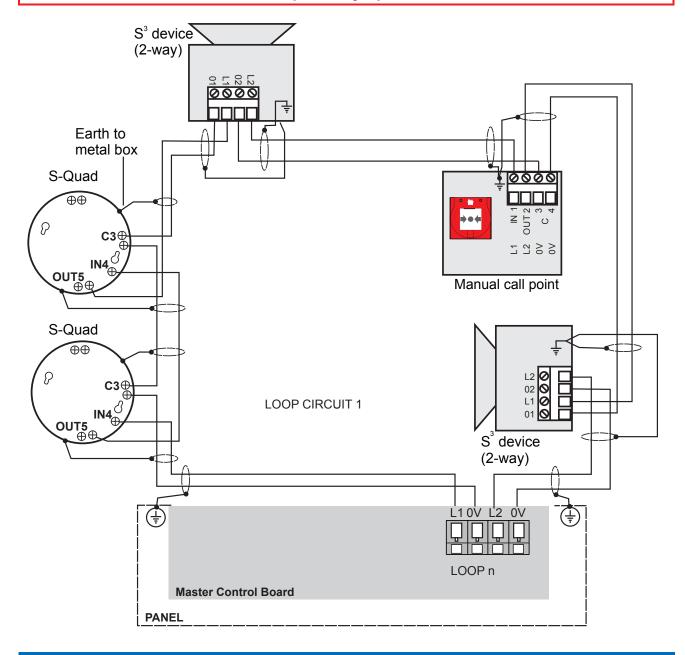


A loop circuit must not cover more than 10,000m<sup>2</sup> of floor area of a protected site.

A spur circuit must always be taken from the 'line common' terminals of a 3 ways device.

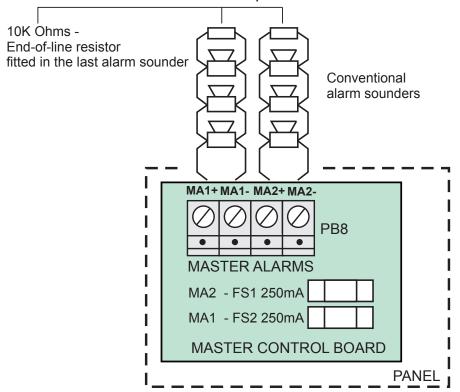
A spur must not cover more than the equivalent of one zone as defined in BS 5839 Part 1.

As every device has a loop isolator, the application of more than 32 devices does not require any special consideration.



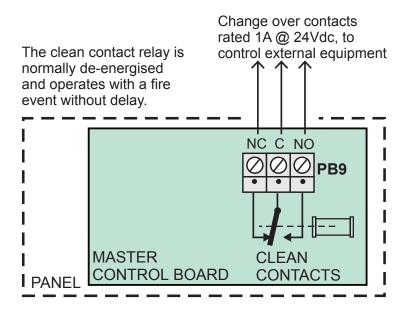
### Master alarm circuits

The two master alarm circuits accept the connection of conventional alarm sounders, such as the conventional S-Cubed products.



#### Clean contacts

The control panel operates the clean contacts relay when a fire event is received from the system. The clean contacts can be used to switch plant equipment, such as lift control system. The contacts should be powered from an independent power supply, where required.

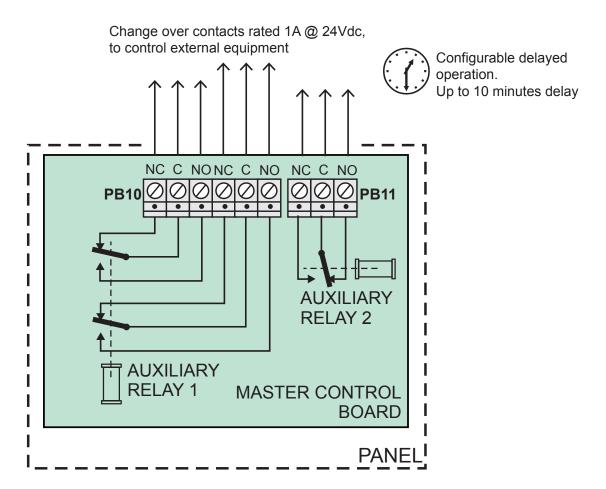


### Auxiliary relay circuits

The control panel operates the auxiliary contacts when the configured event is received from the system.

The auxiliary relays 1 and 2 contacts can be used to control external equipment, such as an automatic dialer that makes the call for fire fighting action. The relays can be individually re-configured to operate with either fire, fault or disablement event in the system.

The relay operation can also be delayed by up to 10 minutes and can be set up to operate in a normally energised or de-energised state. The contacts should be powered from an independent power supply, where required.



Factory default:

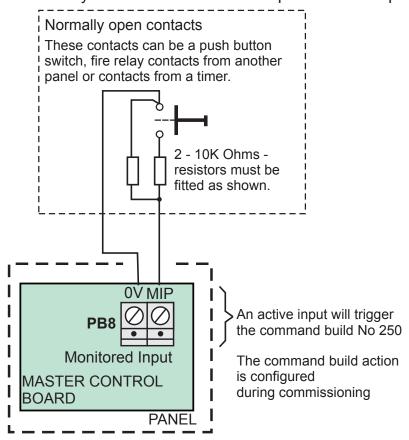
Aux relay 1 is normally de-energised and operates with a fire event without delay.

Aux relay 2 is normally energised and operates with fault event without delay.

### Monitored input circuit

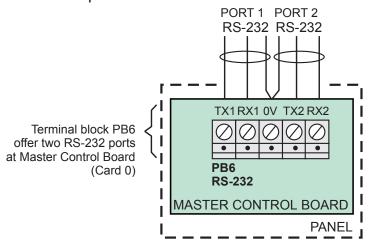
This may be used for class change application in schools. The monitored input at the fire panel is activated by an external switch installed a maximum of up to 100m cable distance away from the panel.

The input is monitored for both short and open circuit fault. When the input is active it triggers a command build number 250 of the fire panel. The command build action is configured during the commissioning of the system. For example the action can be to sound the alarms of the system for the duration the push button is pressed.



## RS232 Ports

The ports 1 and 2 of the fire panel offer RS232 communication, having configurable modes of operation and baud rate which are set during the commissioning of the system. The configurable modes include, standard (default), printer, universal or Ascom. The ports can be used to connect an external printer or commissioning tool.



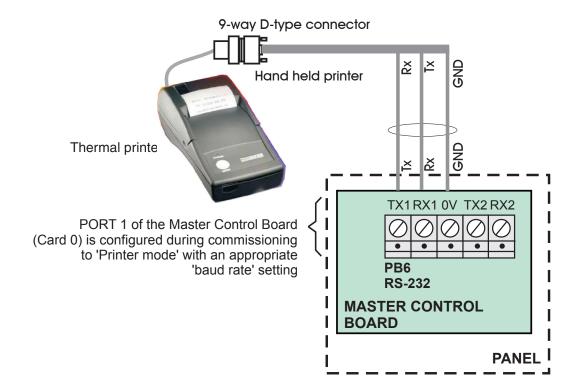
### **USB** Port

The Port 3 is a USB port that is used to connect to the commissioning tool. This tool allows ease of configuring the system.

PORT 3 is the USB port that can be accessed through connector P16 of the Master Control Board (Card 0)

## Connecting a thermal printer

An external serial printer can be connected to the RS232 Port.

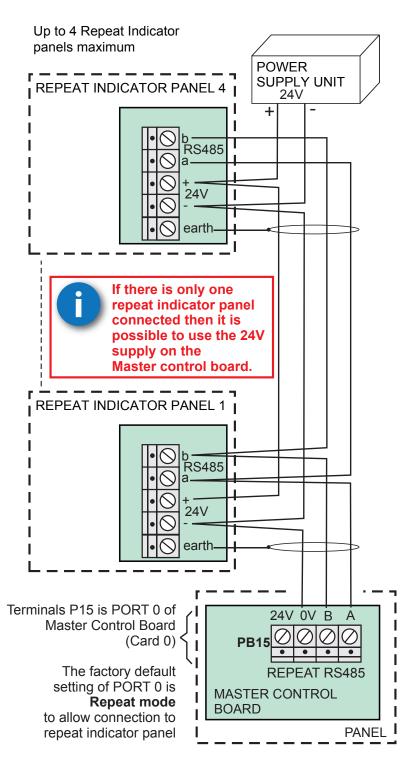


### Repeat indicator panel

Up to four repeat indicator panels can be connected directly to the fire panel at Port 0.

The furthest repeat indicator panel can be installed a maximum of 1Km cable distance away from the fire panel.

The Control panel's Port 0 is configured for Repeat mode and is set up for RS485 communication and the baud rate is selected during the commissioning stage.



# **Network wiring**



In countries where the European EMC directive is in force use only those cables that are EMC Compliant, see list under the heading Network cables.

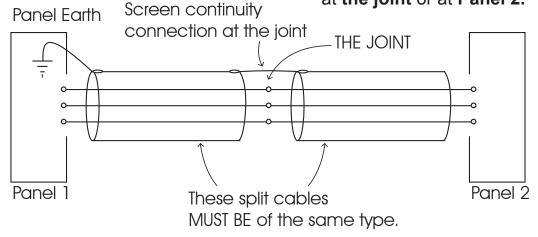
#### Network cable screen continuity

Ensure a good screen continuity joint exist where there is a split cable.



DO NOT mix cables of different types on the same leg of a network as this will create impedance imbalance and disruption to data communication.

NOTE: The cable screens are not connected to earth at the joint or at Panel 2.



## How to minimise cross talk



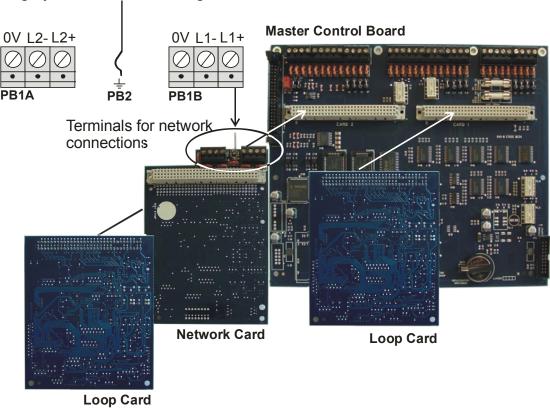
When using standard MICC cable in a network, the different legs of the cable must not be closely placed together, as this will cause signal crosstalk which results in communication failure.

There are three practical ways of overcoming the crosstalk problem:

- use a twisted-core MICC cable
- put a ferrous screen between the cables (ie in the two runs of steel conduit)
- maintain a distance between the network cables of at least 50mm

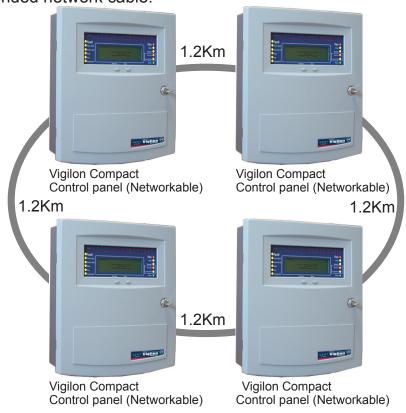
### Network card connections

The Network card has the terminals for network cable connection. The Network card is fitted during system commissioning.

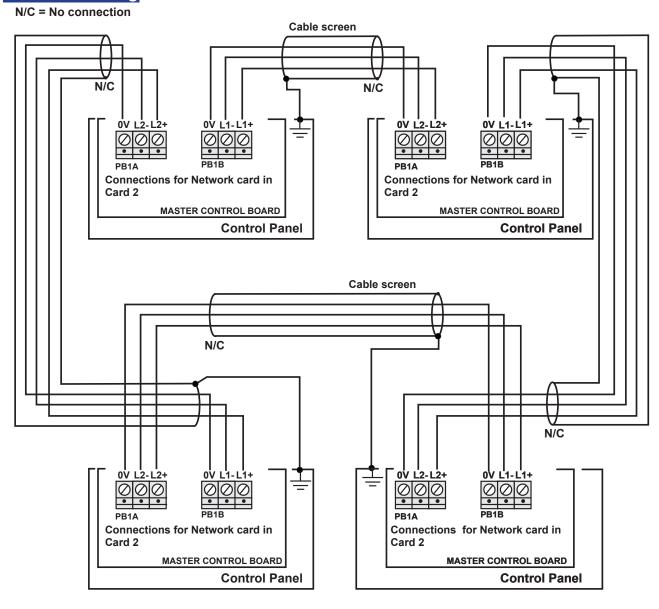


### Vigilon Compact Network

A secure network can have up to 31 control panels connected in a loop using any one of the recommended network cable.



### Network wiring





The cable screen must be connected to an earth terminal in the backbox, as shown.

Where a multicore cable is being used ensure the unused cores (cores without signal) are connected to 0V.



When using a cable having 2 pair with screen, use 1 pair for 0V and use the other pair for L - and L+ connections.

# On completion of panel installation

On completion of cable installation ensure the earth lead between the backbox and inner door is fitted. Also the inner and outer doors are closed.

- a. Close the inner door using a screw driver.
- b. Fit the outer door on to the main enclosure.
- c. Close and lock the outer door.







## **S-Quad Sensors**



This following is short information on the S-Quad product range. The S-Quad product integrates dual angle smoke, heat and carbon monoxide gas detection with electronic sounder, speech and visual alarm in one assembly.

Full information on S-Quad Devices can be downloaded from www.gentexpert.co.uk by registered users.

#### Base

The base has terminals for external cables, for the wiring of loop circuit and monitored input or output circuit. Any S-Quad device can be plugged into an S-Quad base.

#### **IP21 Base**

A IP21 Base Gasket prevent water damage from dripping water from the ceiling. An optional label (Part No: 805576) can be fitted to the base. The label can be marked up with device location information.

#### **Indicators**

The S-Quad has a red LED that gives an indication in the event of a fire. The LED can be configured to flash periodically, as an 'in operation' confirmation, this indication is given system-wide at all S-Quads. The S-Quad with a CO sensor also has a blue LED to indicate when a fire signal senses the presence of CO.

#### **Dust Cover**

A dust cover is supplied with the S-Quad, to prevent dust from building work contaminating the sensor. The cover is removed prior to the commissioning of the fire alarm system.

## Siting

A S-Quad device plugs into a dedicated Base that is installed in the protected premises. The Bases should be sited in locations as defined by the project plans and by BS 5839 : Part 1 : 2013.

#### Do's and Don't



Follow recommendations detailed in section 22 that relate to automatic fire detectors and section 16 that relate to alarm sounders in BS 5839:Part 1 : 2013.

DO Locate Visual Alarm Devices in accordance with Loss Prevention Council Code of Practice CoP 0001.

http://www.redbooklive.com/lps.jsp

DO Fit the recommended IP21 Base to a Visual Alarm Device, i.e an EN54-23 compliant device.

DO NOT flush mount a VAD device using the flush mounting kit (S4-FLUSH).

DO NOT locate smoke detectors where products of combustion may be present such as kitchens, garages, furnace rooms, welding shops etc.

DO NOT locate heat detectors above boilers or heaters or where the temperature is normally very high or liable to sudden fluctuations.

DO NOT locate smoke or heat detectors: -

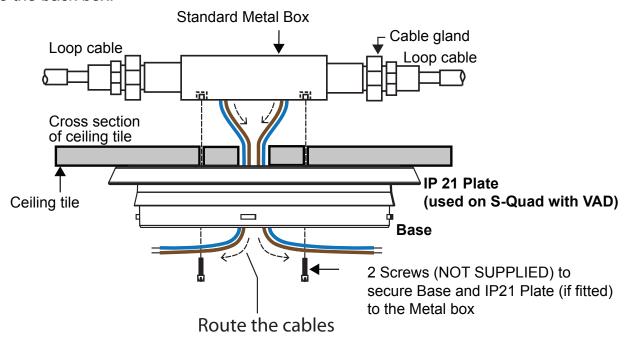
- In dusty or dirty environment.
- Near heating or air-conditioning grilles.
- · Outdoors in stables, sheds etc.
- In excessively damp areas.
- In dead air spaces at the junctions of ceilings and walls.
- At ceiling locations where a 'thermal barrier' may exist.

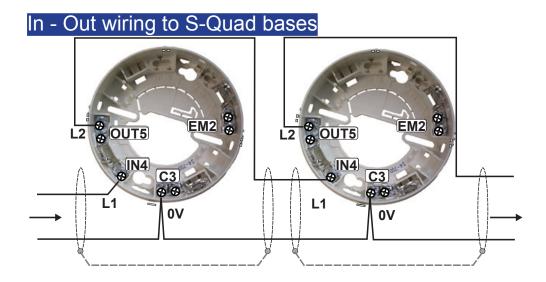
#### DO NOT locate a CO detector: -

- In buildings where farm animals are kept.
- In excessive damp areas.
- In battery room where non sealed battery are kept.
- In a Car park where exhaust fumes will be present.

### Metal back box

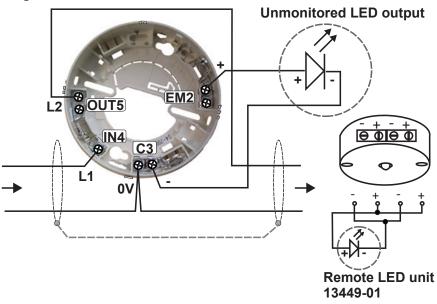
A metal back box must be used for surface or semi-flush mounting. The earth continuity must be maintained throughout the whole loop. The earth must be securely connected to the back box.

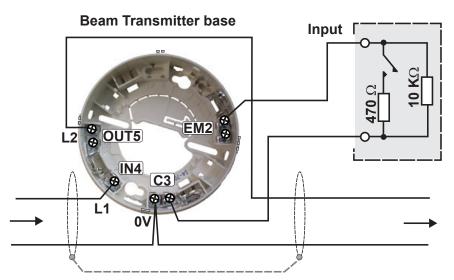




### Programmable input/output

All S-Quad devices can be configured as either monitored input or unmonitored output. The factory setting of the programmable input / output is set as an unmonitored output, to drive an external repeat LED without a series resistor. There is a maximum cable length limit of 15 metres from the S-Quad base to the external I/O Unit.





The input can accept signals such as fire, non fire or fault, these are configured during commissioning. As a fire input it is possible to connect a conventional Manual Call Point (non UK application only) with a series resistor of value 470 Ohms coupled with an end-of-line 10Kohms resistor. In this case the fire input is fully monitored for open or short circuit faults.

The input can be setup as a non-fire or fault input using a similar arrangement with series and parallel resistors as shown. It is possible for such an input to trigger a command that is configured to action an output elsewhere in the system to control plant equipment such as ventilation system in a building.

### Tools for S-Quad

An extractor tool allows removal and fitting of the S-Quad device head into the base. By fitting a screw-on adaptor, the tool can be used to remove the sensor dust cover.

#### To remove an S-Quad

Fit the tool onto the S-Quad. Turn S-Quad anticlockwise until it stops and remove the S-Quad from the base.



#### To fit an S-Quad

Fit the S-Quad on to the tool. Offer S-Quad to base and rotate clockwise until it moves upwards in to the base and rotate it again until it clicks and goes no further, the lines on the base and S-Quad will align.



#### To fit a dust cover

Place the dust cover onto the tool inside the cradle. Offer the cover to the S-Quad, locate and push to fit it onto the assembly. Withdraw the tool when the dust cover is in place.



#### To remove a dust cover

A dust cover remover tool must be fitted to the main tool to extract the dust cover. Press the pad of the dust cover remover tool onto the dust cover, this creates an air tight grip, to allow the cover to be pulled off from the S-Quad.



# Vigilon compact parts

This section lists parts associated with the Vigilon compact panel. For further information on the availability of the parts contact your supplier.

Control Panels

COMPACT-24-N Vigilon Compact control panel (networkable)

c/w 1 - Loop card

(2-12V 12Ah batteries for 24hr standby - supplied)

**Accessories** 

COMPACT-NC Network card for Vigilon compact panel (networkable)

COMPACT-FLUSH Flush surround (for Vigilon Compact control panel)

COMPACT-FLUSH-SS Flush surround stainless steel (for Vigilon Compact panel)

VIG-RPT-DOOR-SS Stainless steel door (for Vigilon Compact panel)

VCS-ODOOR Compact 24hr outer door assembly

VCS-IDOOR Compact 24hr inner door assembly

4015-514-Y 12V 12Ahr Battery

COMPACT-LPC-EN Loop Card (EN54) up to 2Km)

VCS-PSU-N PSU (for COMPACT-24 and COMPACT-24-N)

VCS-MCB-N Master Control Board networkable

**Printer** 

PRINTER-HAND Handheld serial thermal printer

PRINTER-H-PAPER Thermal paper for handheld printer

**Manuals** 

4188-1026 Vigilon Compact panel - Installation instructions

4188-1027 Vigilon Compact panel - Operating instructions

4188-749 Log book

## S-Quad - Sensors

The latest S-Quad publications lists the product range. These publications can be downloaded from www.gentexpert.co.uk by registered users.

# S-Quad - Sensors

Notes	

Notes



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Gent by Honeywell (Novar Systems Limited)
Manufactured by: Honeywell Life Safety Systems,
140 Waterside Road, Hamilton Industrial Park,
Leicester, LE5 1TN, United Kingdom

13

DoP Product No.

025-CPR-2013 Vigilon- Compact-24-N 025-CPR-2013 Vigilon-Compact-24-N-PO 025-CPR-2013 Vigilon-Compact-24-N-SP

EN54-2: 1997 + A1:2006, EN54-4: 1997 + A1: 2002 + A2: 2006

VIG-COMPACT-24-N (EN54-2 & 4) VIG-COMPACT-24-PO (EN54-2 & 4) VIG-COMPACT-24-SP (EN54-2 & 4)

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

Refer to DOP 025-CPR-2013 for level or class of performance declared, for details see website www.gent.co.uk



#### **WEEE Directive:**

At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre.

Do not dispose of with your normal household waste. Do not bum.



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

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.



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