

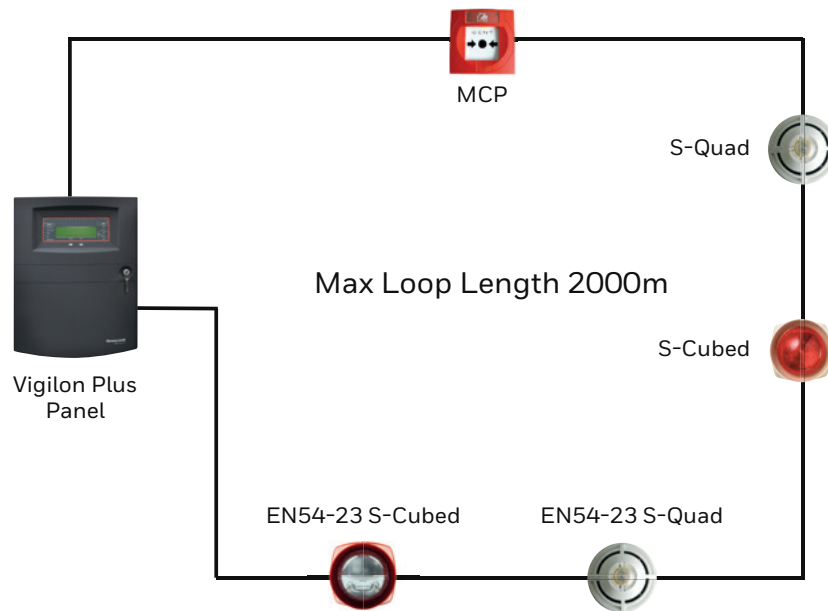
## Advanced Vigilon Loop Card

The new Loop Card is designed to fully comply with EN54-23 and is available on EN54 versions of the Vigilon range of panels. The increased power allows for up to 100 EN54-23 sensor-sounder-strobes on a 2km loop, managing up to 200 devices in total.

### Benefits

- Improved efficiency with 2 times more alarm power with no loss of standby
- Supports up to 100 S-Quad Sensor-Sounder-VADs certified to EN54-23
- Supports the upgrade of existing Vigilon installations

### Architecture



### Description

Honeywell Gent's Loop Card provides EN54-23 compliance, a powerful diagnostic tool and increased max alarm load.

## KEY FEATURES

- Increased capacity for loop powered devices including the new EN54-23 visual alarm devices
- Supports longer loop lengths up to 2km (Use of the loop load design tool may result in longer loops being allowed)
- Loop current increased to 800mA when used with the latest S-Quad and S-Cubed devices
- PC based diagnostic tool to ensure optimum system integrity

# Advanced Vigilon Loop Card Technical Specifications

## Compatibility of loop devices

| THE NEW LOOP CARD WILL SUPPORT LOOPS WITH DEVICES FROM THE FOLLOWING DEVICE RANGES: |                              |                     |                                               |                  |                  |                                         |
|-------------------------------------------------------------------------------------|------------------------------|---------------------|-----------------------------------------------|------------------|------------------|-----------------------------------------|
|                                                                                     |                              |                     | NEW LOOP CARD<br>VIG-LPC-EN<br>COMPACT-LPC-EN |                  |                  | OLD LOOP CARD<br>VIG-LPC<br>COMPACT-LPC |
| PANELS                                                                              | YEAR OF PANEL<br>MANUFACTURE | LOOP<br>DIAGNOSTICS | < 2KM<br>< 800MA                              | < 2KM<br>< 400MA | < 1KM<br>< 400MA | < 1KM<br>< 400MA                        |
| S-QUAD SENSORS                                                                      | 2005 - 2014                  | ✓                   | ✓                                             | ✓                | ✓                | ✓                                       |
| S-QUAD SENSOR SOUNDERS                                                              | 2005 - 2013                  | ✓                   | ✗                                             | ✓                | ✓                | ✓                                       |
| S-QUAD SENSOR SOUNDERS (FALL BACK FUNCTION)                                         | 2014 onwards                 | ✓                   | ✓                                             | ✓                | ✓                | ✓                                       |
| S-QUAD SENSOR SOUNDER STROBE                                                        | 2005 - 2013                  | ✓                   | ✗                                             | ✓                | ✓                | ✓                                       |
| S-QUAD SENSOR SOUNDER PLUS EN54-23 VAD                                              | 2014 onwards                 | ✓                   | ✓                                             | ✓                | ✓                | ✓<br>Compatibility Mode                 |
| 34000 SENSOR                                                                        | 1995 - 2013                  | ✗                   | ✗                                             | ✗                | ✓                | ✓                                       |
| 34000 SENSOR SOUNDER                                                                | 1995 - 2013                  | ✗                   | ✗                                             | ✗                | ✓                | ✓                                       |
| 3400 SENSOR                                                                         | 1987 - 1996                  | ✗                   | ✗                                             | ✗                | ✗                | ✓                                       |
| SOUNDERS                                                                            |                              |                     |                                               |                  |                  |                                         |
| S-CUBED MARK 3 SOUNDERS                                                             | 2014 onwards                 | ✓                   | ✓                                             | ✓                | ✓                | ✓                                       |
| S-CUBED MARK 3 SOUNDERS WITH EN54-23 VAD                                            | 2014 onwards                 | ✓                   | ✓                                             | ✓                | ✓                | ✓<br>Compatibility Mode                 |
| S-CUBED MARK 2 VOICE                                                                | 2005 - 2013                  | ✓                   | ✗                                             | ✓                | ✓                | ✓                                       |
| S-CUBED MARK 2 SOUNDER & SOUNDER STROBE                                             | 2013 - 2013                  | ✓                   | ✗                                             | ✓                | ✓                | ✓                                       |
| S-CUBED MARK 1                                                                      | 2002 - 2013                  | ✓                   | ✗                                             | ✓                | ✓                | ✓                                       |
| 34000 SOUNDERS                                                                      | 1996 - 2002                  | ✗                   | ✗                                             | ✗                | ✗                | ✓                                       |
| 3400 SOUNDERS                                                                       | 1986 - 1996                  | ✗                   | ✗                                             | ✗                | ✗                | ✓                                       |
| MANUAL CALL POINTS                                                                  |                              |                     |                                               |                  |                  |                                         |
| S-QUAD MCP (S4-348XX)                                                               | 2007 - 2014                  | ✓                   | ✓                                             | ✓                | ✓                | ✓                                       |
| 34000 MCP                                                                           | 1995 - 2013                  | ✓                   | ✓                                             | ✓                | ✓                | ✓                                       |
| 3400 MCP                                                                            | 1987 - 1996                  | ✗                   | ✗                                             | ✗                | ✓                | ✓                                       |
| INTERFACES                                                                          |                              |                     |                                               |                  |                  |                                         |
| S-QUAD MAINS SWITCHING INTERFACES                                                   | 2011 - 2014                  | ✓                   | ✓                                             | ✓                | ✓                | ✓                                       |
| S-QUAD MAINS POWERED INTERFACE                                                      | 2011 - 2014                  | ✓                   | ✓                                             | ✓                | ✓                | ✓                                       |
| S-QUAD LOOP POWERED INTERFACES                                                      | 2007 - 2014                  | ✓                   | ✓                                             | ✓                | ✓                | ✓                                       |
| 34000 MAINS POWERED INTERFACE                                                       | 1995 - 2007                  | ✓                   | ✗                                             | ✓                | ✓                | ✓                                       |
| 34000 LOOP POWERED INTERFACES                                                       | 1995 - 2007                  | ✓                   | ✗                                             | ✓                | ✓                | ✓                                       |
| 3400 MAINS POWERED INTERFACES                                                       | 1987 - 1996                  | ✗                   | ✗                                             | ✗                | ✓                | ✓                                       |
| 3400 LOOP POWERED INTERFACES                                                        | 1987 - 1996                  | ✗                   | ✗                                             | ✗                | ✓                | ✓                                       |

# Advanced Vigilon Loop Card Technical Specifications

## Compatibility of control panels

| THE NEW LOOP CARDS ARE COMPATIBLE WITH THE FOLLOWING CONTROL PANELS: |                           |                                               |                  |                  |                  |                                         |
|----------------------------------------------------------------------|---------------------------|-----------------------------------------------|------------------|------------------|------------------|-----------------------------------------|
| PANELS                                                               | YEAR OF PANEL MANUFACTURE | NEW LOOP CARD<br>VIG-LPC-EN<br>COMPACT-LPC-EN |                  |                  |                  | OLD LOOP CARD<br>VIG-LPC<br>COMPACT-LPC |
|                                                                      |                           | LOOP DIAGNOSTICS                              | < 2KM<br>< 800MA | < 2KM<br>< 400MA | < 1KM<br>< 400MA | < 1KM<br>< 400MA                        |
| 32000                                                                | 1996 - 1999               | ×                                             | ×                | ×                | ×                | ✓                                       |
| 3400                                                                 | 1987 - 2000               | ×                                             | ×                | ×                | ×                | ✓                                       |
| VIGILON BS                                                           | 2000 - 2007               | ×                                             | ×                | ×                | ×                | ✓                                       |
| VIGILON 4 LOOP 2000 - 2013 (JULY)                                    | 2000 - Jul 2013           | ✓ MCC > V4.51                                 | ×                | ✓                | ✓                | ✓                                       |
| VIGILON 6 LOOP                                                       | 2000 - Jul 2013           | ✓ MCC > V4.51                                 | ×                | ✓                | ✓                | ✓                                       |
| VIGILON 4 LOOP AND VIGILON PLUS                                      | August 2013 onwards       | ✓ MCC > V4.51                                 | ✓                | ✓                | ✓                | ✓                                       |
| VIGILON 6 LOOP AND VIGILON PLUS                                      | August 2013 onwards       | ✓ MCC > V4.51                                 | ✓                | ✓                | ✓                | ✓                                       |
| VIGILON COMPACT AND COMPACT PLUS                                     | 2003 onwards              | ✓ MCB > V4.51                                 | ✓                | ✓                | ✓                | ✓                                       |
| VIGILON COMPACT VOICE                                                | 2003 - 2013               | ✓ MCB > V4.51                                 | ✓                | ✓                | ✓                | ✓                                       |

NB - The new Loop Card software is not available in BS protocol therefore the new card is not compatible with 3400 panels and any BS protocol Vigilon (or 34000 export) panels.

## Features and benefits

### Loop alarm current

The new loop card is designed to support a higher loop load in alarm delivering a higher capacity for EN54-23 compliant visual alarms devices. The maximum alarm load of 800mA is available ONLY with the new range of alarm devices. With any of the old range of alarm devices (S-Quad, S-Cubed) the maximum alarm load is limited to 400mA per loop.

### Loop length

The loop card is capable of supporting loops in excess of 1km with a maximum length of 2km with 1.5mm<sup>2</sup> cable. This is subject to loop population and distribution of sounders and visual alarm devices.

### Alarm device distribution

A key factor affecting the loop length and alarm current capability of the loop card is the distribution of alarm devices on the loop. In

some circumstances the new loop card may support fewer devices or loop lengths less than 2km. Reference should be made to the loop load calculations in the installation instructions and by use of the Battery Standby and Loop Load Calculator Tool.

### Validating loop length

The loop card will automatically measure (and display on the panel) the loop resistance of each loop on allocation. This will allow engineers to easily fulfil one of the required tasks for commissioning the system. If the resistance exceeds a safe limit it will indicate a fault.

### ORDER CODES

|                                           |                |
|-------------------------------------------|----------------|
| VIGILON PLUS LOOP CARD<br>EN54 PT23 READY | VIG-LPC-EN     |
| COMPACT PLUS LOOP CARD<br>EN54 PT23 READY | COMPACT-LPC-EN |

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