

Advanced Vigilon Loop Card

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



Description

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

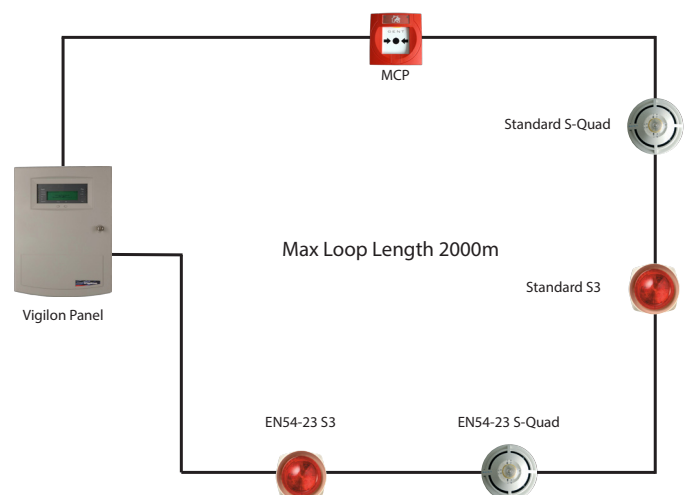
Key Features

- Increased capacity for loop powered devices including the new EN54-23 visual alarm devices
- Supports longer loop lengths up to 2km*
- 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

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

Schematic



Compatibility of loop devices

The new loop card will support loops with devices from the following device ranges:

DEVICES SENSORS	YEAR OF MANUFACTURE	NEW LOOP CARD VIG-LPC-EN COMPACT-LPC-EN				OLD LOOP CARD VIG-LPC COMPACT-LPC
		LOOP DIAGNOSTICS	< 2km < 800mA	< 2km < 400mA	1km < 400mA	1km < 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	✓	✓	✓	✓	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	✓	✓	✓	✓	Compatibility Mode
S-Cubed Mark 2 Voice	2005 - 2013	✓	✗	✓	✓	✓
S-Cubed Mark 2 Sounder & Sounder Strobe	2013 - 2013	✓	✗	✓	✓	✓
S-Cubed Mark1	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	2010 - 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	✗	✗	✗	✗	✓

Compatibility of control panels

The new loop cards are compatible with the following control panels:

PANELS	YEAR OF MANUFACTURE	LOOP DIAGNOSTICS	NEW LOOP CARD VIG-LPC-EN COMPACT-LPC-EN			OLD LOOP CARD VIG-LPC COMPACT-LPC
			< 2km < 800mA	< 2km < 400mA	1km < 400mA	1km < 400mA
32000	1996 - 1999	x	x	x	x	✓
3400	1987 - 2000	x	x	x	x	✓
Vigilon BS	2000 - 2007	x	x	x	x	✓
Vigilon 4 loop 2000 - 2013 (July)	2000 - Jul 2013	✓ MCC > V4.51	x	✓	✓	✓
Vigilon 6 Loop	2000 - Jul 2013	✓ MCC > V4.51	x	✓	✓	✓
Vigilon 4 loop	August 2013	✓ MCC > V4.51	✓	✓	✓	✓
Vigilon 6 Loop	August 2013	✓ MCC > V4.51	✓	✓	✓	✓
Vigilon Compact	2003 - 2013	✓ 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 1.5mm² 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.

DESCRIPTION	ORDER CODES
VIGILON LOOP CARD - EN54 pt23 ready	VIG-LPC-EN
COMPACT LOOP CARD - EN54 pt23 ready	COMPACT-LPC-EN