# Installation instructions
# new IO Card EN54 (VIG-IOC-DOM) for EN54 Vigilon fire panels

**novar**
G E N T

The new Input Output (IO) card (**part no. VIG-IOC-DOM)** is designed for installation in EN54 Vigilon analogue addressable fire panels and Network node:

*Vigilon Fire Panels*

- VIG1
- VIG1-NET
- VIG2
- VIG2-NET
- VIG3
- VIG3-NET
- VIG4
- VIG4-NET

*Vigilon Network (Terminal) Node*

- VIG-NODE.

## new IO card replaces existing IO cards

The new IO card combines the functions of and will replace the existing IO cards:

- VIG-IOC-PRT
- VIG-IOC-ASCOM
- VIG-IOC-UFD
- VIG-IOC-UNI

🛈 **The existing IO cards are no longer available.**

## Specification

| | |
|---|---|
| Overall size | 148mm height x 100mm width |
| Node address range | 1 to 31 |
| Baud (When installed as an additional IO card) | 1200, 1800, 2400, 3600, 4800, 7200, 9600 and 19200 |
| IO card when installed in socket P2 of the backplane *Ports, terminals and cable distance* | Terminal card - terminal block number: ☐ P4 for RS232 10m cable distance ☐ P4 for RS485 1.2Km cable distance |
| Weight | 72g (approximate) |
| Operating temperature | 0°C to 45°C |
| Storage temperature | -10°C to 55°C |
| Relative humidity (non condenscing) | up to 90% |

## IO card terminals

RS485    RS232

-ve 5V +ve 0V   Tx CTS Rx RTS

P4

Terminal card
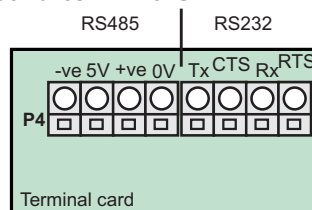
## Checks

☐ Set the rotary switch **SW2** to a required function.

☐ Ensure all DIP switches **SW1** are set to the Off position before installing the IO card in socket **P2** of the backplane

☐ Connect the 20 way ribbon cable from DKC connector **P4** to the IO card socket **P2**.

☐ One additional IO card can be fitted into the backplane spare socket **P7** of the control panel and up to four into the backplane sockets of the Network node.

When installing an additional IO card it is important to set its DIP switches **SW1** to the required baud rate and node address and the rotary switch **SW2** to the required function before installing the card in a spare socket of the backplane.

## IO card location

One new IO card is normally fitted as Card 15 in socket P2 of the Control panel backplane.
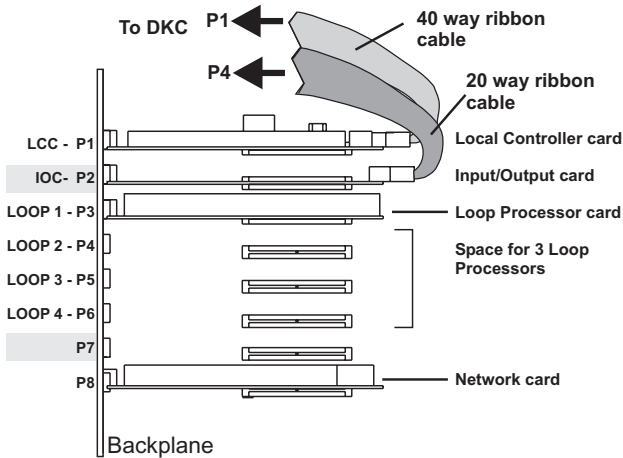


## Setting switches SW1 and SW2
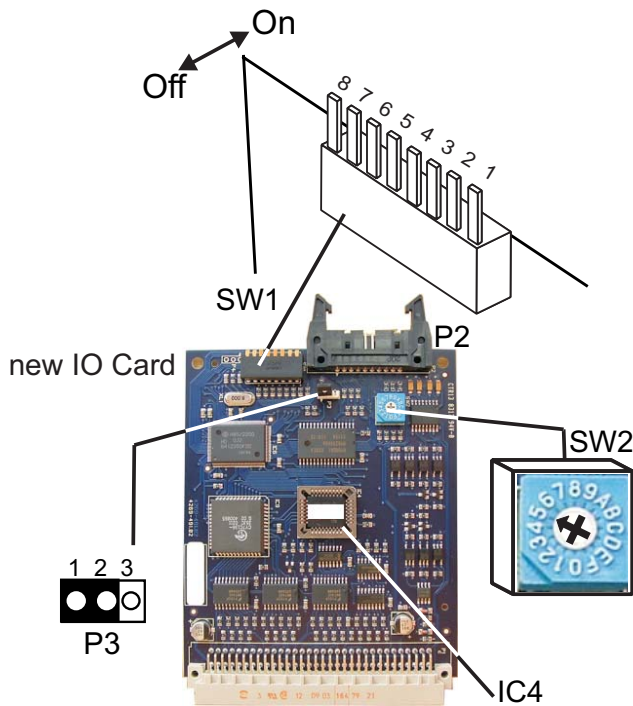


**IMPORTANT:**
**The Vigilon Control Panel uses the DIP Switches on the DKC (front door) for its address and baud rate settings. It is important that the DIP switches SW1 on the IO card when installed as Card 15 in socket P2 of the backplane are ALL set in the UP or OFF position for them to be ignored.**

## SW1 Switch settings

The switch positions shown here are applicable for the new IO Card when installed as an additional IO card.

**No dongle is required for DIP switches to work when used as second or additional IO card.**

| 1 | 2 | 3 | Baud Rate | | 4 | 5| | 6 | 7 | 8 | Node Address | |
|---|---|---|-----------|---|---|----|---|---|---|--------------|---|
| Off | Off | Off | 1200 baud | | Off | Off | Off | Off | Off | | |
| Off | Off | On | **1800 baud** | | Off | Off | Off | Off | On | **1** |
| Off | On | Off | **2400 baud** | | Off | Off | Off | On | Off | **2** |
| Off | On | On | **3600 baud** | | Off | Off | Off | On | On | **3** |
| On | Off | Off | **4800 baud** | | Off | Off | On | Off | Off | **4** |
| On | Off | On | **7200 baud** | | Off | Off | On | Off | On | **5** |
| On | On | Off | **9600 baud** | | Off | Off | On | On | Off | **6** |
| On | On | On | **19200 baud** | | Off | Off | On | On | On | **7** |
| | | | | | | | | | | |
| | | | | | On | On | On | On | On | **up to 31** |

▢ Factory settings

### SW2 Switch settings

| Rotary Switch Pos. | Standard connections Port 0 (RS232) Mode | Port 1 (RS485 mode |
|--------------------|------------------------------------------|--------------------|
| 0 | 3217 Half/Full-Duplex | |
| 1 | Slave I/O | |
| 2 | Remote Printer (as VIG-IOC-PRT) | Repeat panel 1200 |
| 3 | Universal Full-Duplex (as VIG-IOC-UFD) | |
| 4 | Ascom Pager (as VIG-IOC-ASCOM) | Note: The Repeat indicator panel must be powered from an external power supply. |
| 5 | Domain Bridge Full-Duplex | |
| 6 | Universal Half-Duplex (as VIG-IOC-UNI) | |
| 7 | - | |
| | Factory setting | |

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