Installation instructions
Copper Network Card (BS)

GENT
by Honeywell

(VIG/34K-NC-V3+) for BS5839 Vigilon or 34K Network

This network card can be installed in:

Vigilon or 34K Fire Panels

- VIG1-V3+ or 34K1-V3+
- VIG1-NET-V3+
- VIG2-V3+
- VIG2-NET-V3+
- VIG3-V3+
- VIG3-NET-V3+
- VIG4-V3+
- VIG4-NET -V3+

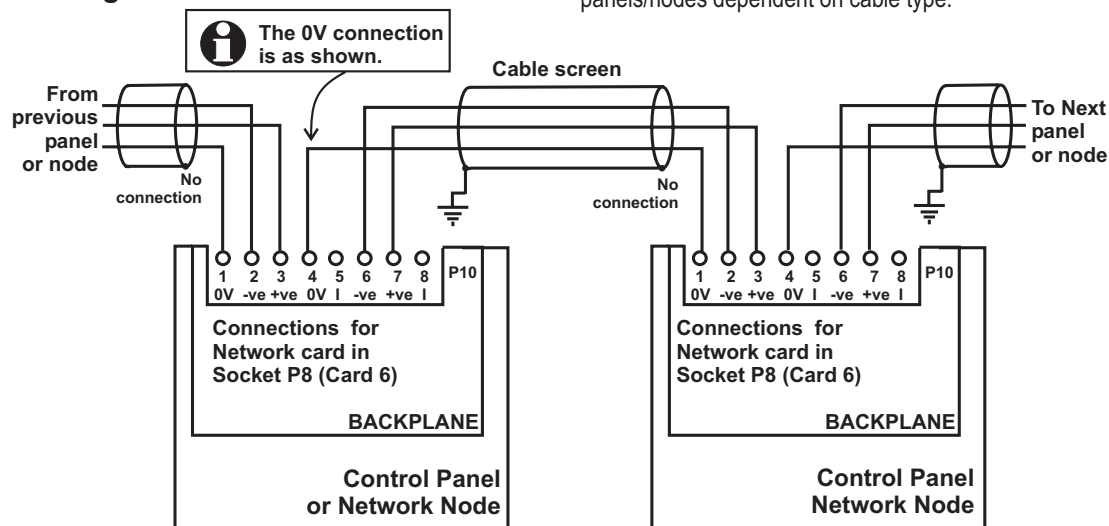*Vigilon or 34K Network (or Terminal) Node*
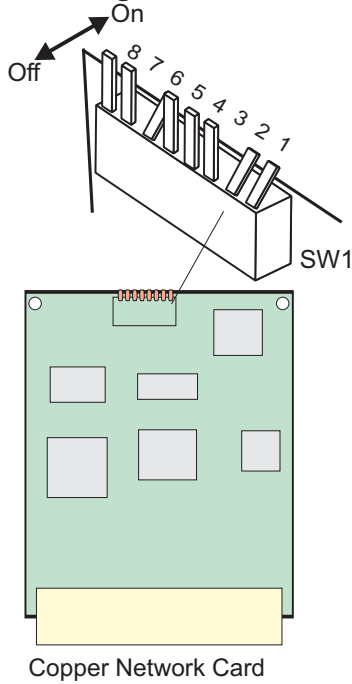
- VIG-NODE-V3+ or 34K-NODE-V3+
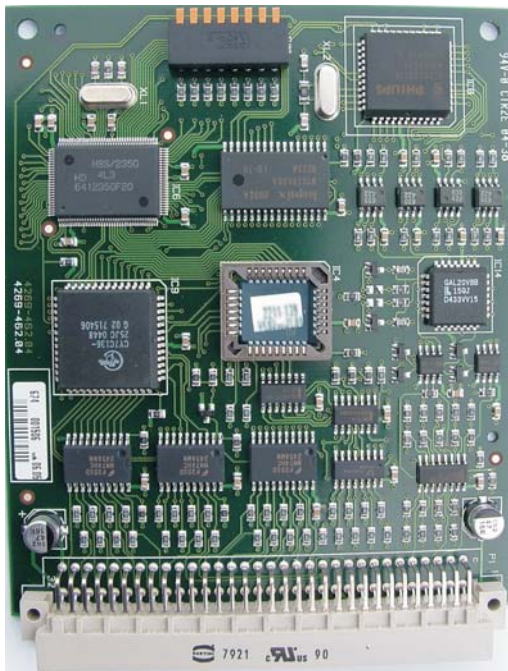
This copper network card is used to allow messages of status and control data to pass between control panels and network (or terminal) nodes in a networked fire system. The card must be plugged into the backplane of each panel and node in a dedicated slot. When it is plugged into the slot P8 on the backplane the external cables must be connected to terminal block P10, which is also located on the backplane.
The dual-in-line switches on the card are set to program the address number and baud rate.

Specification

Overall size	128mm height x 100mm width
Node address range	1 to 31
Baud	2400, 9600, 19.2K and 38.4K
Operating voltage	±5V (RS485)
Terminations	Terminal block P10 assuming Network card is installed in backplane slot P8
Cable	Belden 9729 (example)
Weight	72g (approximate)
Operating temperature	0°C to 45°C
Storage temperature	-10°C to 55°C
Relative humidity (non condenscing)	up to 90%

Using the Copper Network card a maximum of up to 31 Control panels and Network (Terminal) nodes can be connected in a secure network loop, with up to 1.2Km cable distance between panels/nodes dependent on cable type.

Connecting the Panels and Nodes

The 0V connection is as shown.

From previous panel or node

Cable screen

To Next panel or node

No connection

No connection

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | P10 |
| 0V | -ve | +ve | 0V | I | -ve | +ve | I | |

Connections for Network card in Socket P8 (Card 6)

BACKPLANE

Control Panel or Network Node

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | P10 |
| 0V | -ve | +ve | 0V | I | -ve | +ve | I | |

Connections for Network card in Socket P8 (Card 6)

BACKPLANE

Control Panel Network Node

Switch settings

On
Off

8 7 6 5 4 3 2 1

SW1

Copper Network Card

backplane		
MCC / LCC	**P1**	**CARD 0**
IOC / NC	**P2**	**CARD 15**
LOOP 1	**P3**	**CARD 1**
LOOP 2	**P4**	**CARD 2**
LOOP 3	**P5**	**CARD 3**
LOOP 4	**P6**	**CARD 4**
IOC / NC	**P7**	**CARD 5**
NC	**P8**	**CARD 6**

LCC - Local Controller Card
MCC - Main Control Card
IOC - Input Output Card
NC - Network Card
LOOP n - Loop Processor Card

40 way ribbon cable

P1

To DKC

P4

20 way ribbon cable

Network Card

Backplane
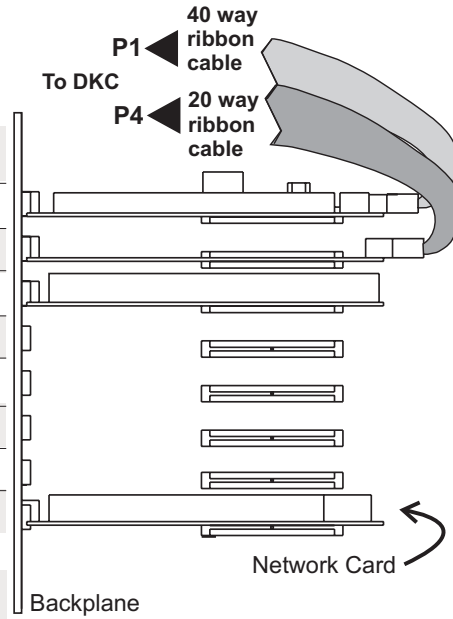
ℹ️ **The copper network card is factory set for 38.4K baud with node address 4.**

Node address switch numbers and settings

Baud rate switch numbers and settings

	8	7	6	5	4	3	2	1	
64	off	off	off	off	off	off	off	off	2400
1	on	off	off	off	off	off	on	off	9600
2	off	on	off	off	off	off	off	on	19.2K
3	on	on	off	off	off	off	on	on	38.4K
4	off	off	on	off	off	off			
63	on	on	on	on	on	on			
	Address						Baud		

- factory settings

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 burn.