

MxPro⁵

Vega Devices



This document lists the Argus Vega devices that are compatible with the **MxPro⁵** Range of Fire Alarm Control Panels.

It also highlights any specific requirements and technical information.

The operation and functions described in this manual are available from Software Version 5000-050-05 onwards.

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1 Compatible Devices

All part numbers are Argus Vega numbers unless indicated otherwise.

Item	Description	Comments	SW
Detection			
V100	Optical Smoke Detector		
LV100	Optical Smoke Detector (without Isolator)		
V200	Multi-Criteria Smoke Detector		
LV200	Multi-Criteria Smoke Detector (without Isolator)		
V350	Heat Detector		
LV350	Heat Detector (without Isolator)		
VCP100	Manual Call Point	(Type A)	
Detector Bases			
VB100	Detector Base - Standard		
VBLR100	Detector Base – With Relay		
VBLS100	Detector Base – With Sounder		
Modules			
VMI100	Input Module	Wall Mount	
VMMI100		Mini Module	
VMDI100		DIN Module	
VMIC100	Input / Supervised Output Module	Wall Mount	
VMMIC100		Mini Module	
VMDIC100		DIN Module	
VMC100	Supervised Output Module	Wall Mount	
VMMC100		Mini Module	
VMDC100		DIN Module	
VMC120	Relay Output Module (Dual Pole)	Wall Mount	
VMMC120		Mini Module	
VMDC120		DIN Module	
VMIC120	Input / Relay Output Module	Wall Mount	
VMMIC120		Mini Module	
VMDC12		DIN Module	
VUMI100	Input Module	Micro	
VUMC100	Supervised Output Module	Micro	
VUMC140	Relay Output Module (Single Pole)	Micro	
VUMIC140	Input / relay Output Module (Single Pole)	Micro	
VMCZ100	Conventional Zone Module		
VMIC404	4 Input / 4 Relay Output Module		
VMIC422	4 Input / 2 Supervised Output / 2 Relay Output		
VMIC602	6 Input / 2 Relay Output		
JACK	Telephone Jack Interface		
Alarm Devices			
VLS100	Sounder (Wall Mount)		
VLS100AV	Sounder-Beacon (Wall Mount)		
VBLS100	Sounder (Detector Base)		
VLBE100	Beacon		
VFI100	Addressable Remote Indicator		

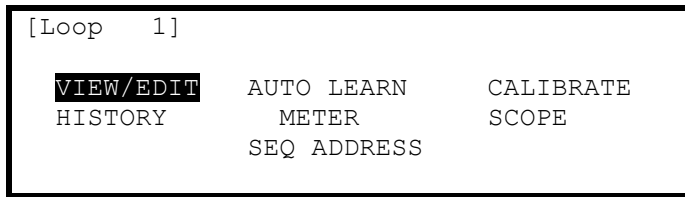
Item	Description	Comments	SW
Radio Devices			
VW2W100	Wireless Transmitter Interface		
SGWE	Wireless Expander		
SG100	Smoke Detector		
SG200	Smoke Heat Detector		
SG350	Heat Detector		
SGCP100	Call Point		
SGMI100	Input Module		
SGMC100	Relay Output Module		
SGRS100	Wall Sounder		
SGRS100AV	Wall Sounder - Beacon		
SGBE100	Wall Beacon		
SGFI100	Addressable Remote Indicator		
SGMCB100	Battery Output Module		
SGVA100	Voice Sounder		
SGRBS100	Sounder Base		

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.
Part Numbers for Advanced Electronics Ltd devices have the format 20-XXXXX-ADV where XXXXX is the number listed in the table above.

 Section 12.5.2	<p>Maximum of 32 Sensors / Call Points in a Zone (between Isolators).</p> <p>The Detection Loop Circuit should be installed as a continuous loop with isolator modules such that a short circuit condition does not remove more than one zone or 32 input devices.</p> <div data-bbox="1189 1097 1396 1198" style="float: right;">  <p>Clause 6.2.5 Not more than 128 devices per loop</p> </div>
 Section 13.7	<p>Not more than 512 fire detectors and / or manual call points and their associated mandatory functions shall be affected as a result of a system fault in the C.I.E.</p> <p>The panel should be installed with not more than 512 fire input devices.</p>

2 LOOPS Menu

The display will then show a list of programming options as follows:



For AV protocol, there are additional optional functions as follows:

2.1.1 Loop – Calibrate

Calibrates devices – Requests the device internal value for drift contamination from all devices on the loop. If a value returned is greater than a preset limit, the panel will flag a “Dirty” fault against the appropriate devices.

Drift values can also be downloaded to the Service Tool.

2.1.2 Loop – SEQ Address

The loop devices can be assigned an address either by using either the hand-held programmer (VPU100) or by auto-sequence allocation by the panel.

The auto-sequence option provides a simple means of initially allocating the address of each device.

The auto-sequence function works using the in-built isolators of the devices and by interrogating each device physically located on the loop (from OUT to IN) in sequence. Addresses are allocated in the sequence 1 – 240 from OUT to IN.



NOTE: If LV100, LV200 and LV350 detectors (without isolators) are installed on the loop, it is not possible to use this feature – ALL devices must be addressed using the VPU100 tool.



NOTE: Radio devices configured and connected to the transmitter interface will automatically be assigned addresses incremental after the address assigned to the transmitter interface.

Before commencing:

[1] Ensure that the devices are installed in a loop with no T spur sections.

[2] Check that the loop is continuous. Select View – Driver to verify the return voltage is present.

[3] On completion, perform an AUTO-LEARN so that the panel learns the devices present and their type.

[4] Verify that the panel has found the necessary devices and the allocated addresses match up to the expected address / type on the design drawings.



NOTE: It can take up to 15 minutes to scan and address a full loop of 240 devices.



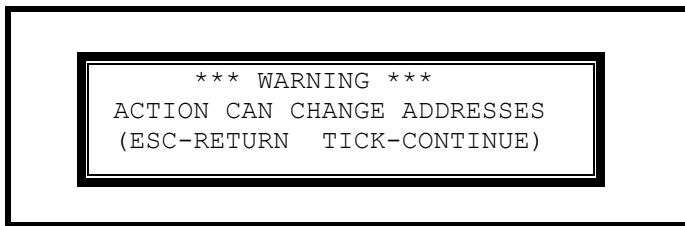
If the last sequenced address does not correspond to the total number of the devices physically installed on the loop – check:

The panel shows a loop return voltage.

Disconnect the loop for at least 120 seconds, reconnect and try again.



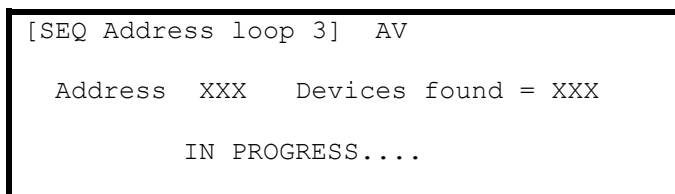
It is highly recommended that this function be only used on new installations. If a device is to be added to the loop, use the hand-held programmer to allocate its address.



Press the ✓ button and a confirmation display is shown.



Use the ↑↓ buttons to select the required option and press the ✓ button.



On completion of the process, the display shows COMPLETED!

Press ESC to return to the main loop menu.

If the process has been aborted due to communication errors between the control panel and the devices then the display shows UNSUCCESSFUL!

3 LOOPS – View

3.1 Analogue Value

This parameter shows a scaled percentage of the analogue value returned by the device. 100% equates to the fire alarm threshold level.

There are two points assigned to Multi-sensor, Heat and Heat ROR devices. The second point is always a heat value and is presented in °C. This point is for information only and cannot be adjusted.

3.2 Sensitivity Settings

Reference: Product Manual 680-165 Section 3.3.2.8

The following are the protocol / device specific information relating to AV devices.

This parameter shows if the device sensitivity is set to its “DEFAULT” or “CUSTOM” settings. For example:

[Loop	1 Devices]	<More>
Address	Sensitivity	
001.0	DEFAULT	
002.0	DEFAULT	
002.1	--	
003.0	CUSTOM	

Press the ✓ button to change the sensitivity assigned to an input device. When selected, a new screen displays the sensitivity settings assigned. For example:

SENSITIVITY ADJUST MODE (HEAT)	
[Alarm = 100]	
[Pre-Alarm = 80]	
[Delay = 0s]	[Min.Value = 0]
[SAM/SSM]	

Press the ←↑↓→ buttons to highlight the required menu option and then press the ✓ button to select it. Use the **number** buttons to enter the required value. Alternatively, press the ‘Esc’ button to cancel the changes.

The alarm threshold is fixed. The Pre-Alarm level can be adjusted in the range 1-100. The delay time can be unique for every device if required.



Always ensure that the values chosen are suitable for the particular installation and that reliable fire coverage is maintained at all times.

3.2.1 Mode

Specific detectors can be set to operate with defined sensitivity levels. Refer to Section 4 for information on each device.

3.2.2 Alarm

The Alarm Level is the 100% scaled value of the analogue value returned by the detector at which the panel will enter a Fire Alarm Condition.

The alarm level value is fixed at 100% and cannot be changed.

3.2.3 Minimum Level

If the detector analogue output falls below the minimum value programmed, the panel will enter a fault warning condition. This parameter is a fixed value (0).

4 Device Information

This section provides brief details and connection requirements for each device. For full details, refer to the documentation provided with each device. Refer to section 2.1.2 for setting the device address.

4.1 Detectors


NOTE: The alarm threshold for all devices, in the sensitivity mode screens, is fixed.



test.

Detectors may support testing using a magnet test method. This magnet test is not a substitute for proper smoke or heat testing methods but can aid in initial system testing. The pictures to the left are shown against each detector type depending on whether they do or do not support a magnet

4.1.1 V100 Smoke Detector


 The V100 supports 4 sensitivity modes on the optical element. The modes correspond to:

Mode	Sensitivity	Notes dB/m (%/m)
1	High	0.06 (1.4%/m)
2	Medium High (Default)	0.09 (2.0%/m)
3	Medium Low	0.11 (2.5%/m)
4	Low	0.13 (3.0%/m)

Define the modes to provide the sensitivity levels required for normal and special sensitivity modes of operation – examples are shown below:

SENSITIVITY ADJUST MODE (SMOKE)	SPECIAL SENSITIVITY MODE (SMOKE)
[Alarm = 100]	[SSM/Clock = 1][Alarm = 100]
[Mode = 2][Pre-Alarm= 80]	[Mode = 1][Pre-Alarm= 80]
[Delay = 0s][Min.Value= 0]	[Delay = 3s][Min.Value= 0]
[SAM/SSM]	[SAM/SSM]

4.1.2 V200 Multi Sensor Detector

 The V200 supports 4 basic multi sensitivity modes (1-4) on its combined optical and heat (A1R 58°C) elements (Sub Address 0) and shows the actual calculated thermal value (°C) on its heat element (Sub Address 1).

An additional 5 modes (5-9) can be enabled using the PC Tool only (for devices supplied from 2009 – V1.48). This allows either a heat only mode or 4 sensitivity levels in smoke only mode to be selected.

The modes for the optical element correspond to:


Mode	Sensitivity	Notes dB/m (%/m)	
1	High	0.06 (1.4%/m)	Multi Smoke + A1R
2	Medium High (Default)	0.09 (2.0%/m)	Multi Smoke + A1R
3	Medium Low	0.11 (2.5%/m)	Multi Smoke + A1R
4	Low	0.13 (3.0%/m)	Multi Smoke + A1R
5	Heat Only	--	Heat Only A1R
6	High	0.06 (1.4%/m)	Smoke Only
7	Medium High (Default)	0.09 (2.0%/m)	Smoke Only
8	Medium Low	0.11 (2.5%/m)	Smoke Only
9	Low	0.13 (3.0%/m)	Smoke Only

Define the modes to provide the sensitivity levels required for normal and special sensitivity modes of operation – examples are shown below:

SENSITIVITY ADJUST MODE (MULTI)	SPECIAL SENSITIVITY MODE (MULTI)
[Alarm = 100]	[SSM/Clock = 1][Alarm = 100]
[Mode = 2][Pre-Alarm= 80]	[Mode = 1][Pre-Alarm= 80]
[Delay = 0s][Min.Value= 0]	[Delay = 0s][Min.Value= 0]
[SAM/SSM]	[SAM/SSM]

An input action can be assigned (default “Control Signal”) to Sub Address 1 with a maximum alarm value of 70°C.

4.1.3 V350 Heat Detector

 The V350 can be configured as either a rate of rise or static response heat detector using the hand held programmer (VPU100). The basic sensitivity is in accordance with EN54-5 A1R or a fixed high temperature static response in accordance with EN54-5 BS.

SENSITIVITY ADJUST MODE (HEAT RISE)
[Alarm = 100]
[Pre-Alarm= 80]
[Delay = 0s][Min.Value= 0]
[SAM/SSM]


The alarm threshold is fixed at 100 for either the A1R (58°C static response level) or the B (78°C static response level) standard. The pre-alarm value can be modified and the static alarm delay can be changed. The actual calculated thermal value (°C) on its heat element can be viewed (Sub Address 1).

Note: The device has a unique type code depending on its programmed operating characteristic.


An input action can be assigned (default “Control Signal”) to Sub Address 1 with a maximum alarm value of 70°C.

4.1.4 LV Devices


4.1.4.1 LV100 Smoke Detector

 The LV100 is the same as the V100 with the exception that it does not contain an isolator or a green LED mode. It supports 4 sensitivity modes on the optical element the same as the V100.

4.1.4.2 LV200 Multi Detector

 The LV200 is the same as the V200 with the exception that it does not contain an isolator or a green LED mode. It supports the multi-mode, heat only and smoke only sensitivity modes as per the V200.

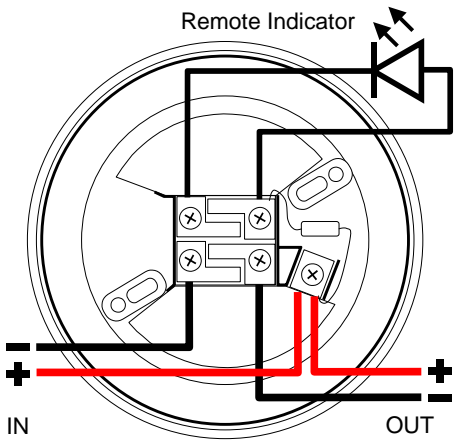
4.1.4.3 LV350 Heat Detector

 The LV3500 is the same as the V350 with the exception that it does not contain an isolator or a green LED mode.

NOTE: A maximum of only 32 LVxxx devices must be installed between the isolators of other devices.

4.1.5 Mounting Bases

4.1.5.1 Mounting Base VB100

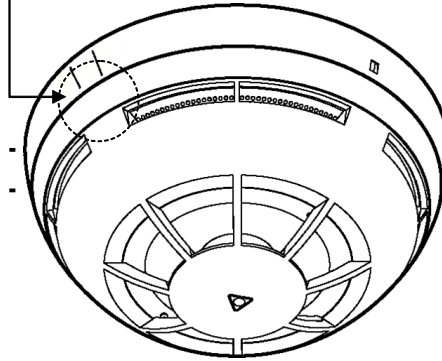


Mounting bases are 110mm (4¼") diameter. Refer to diagram above for basic loop wiring information.

NOTE: The remote output operating current must be limited by means of a series resistor to not more than 20mA. The FI100 Remote indicator can be connected directly.

4.1.5.2 Detector Magnet Testing

Two marks on the base indicate the position of the test sensor on the detector. Placing a magnet against the detector housing will cause the detector to change its analogue value to 255 for approximately 5 seconds.



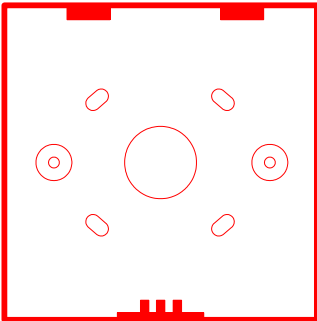
This magnet test is not a substitute for proper smoke or heat testing methods but can aid in initial system testing.



Refer to the individual devices as to whether this feature is supported.

4.2 VCP100 Call point

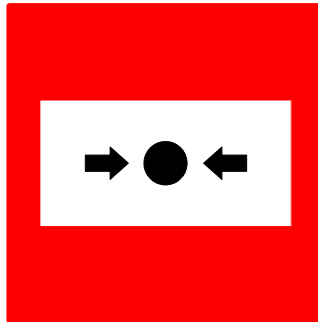
TOP



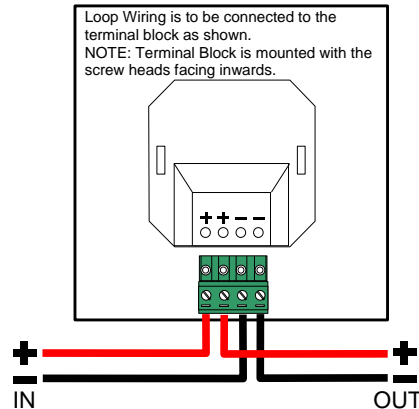
Wall Mounting Box 87x87x35

Can be mounted flush fitting onto standard single gang electrical junction box.

Call Point: EN54-11 Type A
Call Point clips onto mounting box – Locate onto top tabs and click into place at bottom. Test key has fingers to unclip bottom fixing for removal.



REAR VIEW



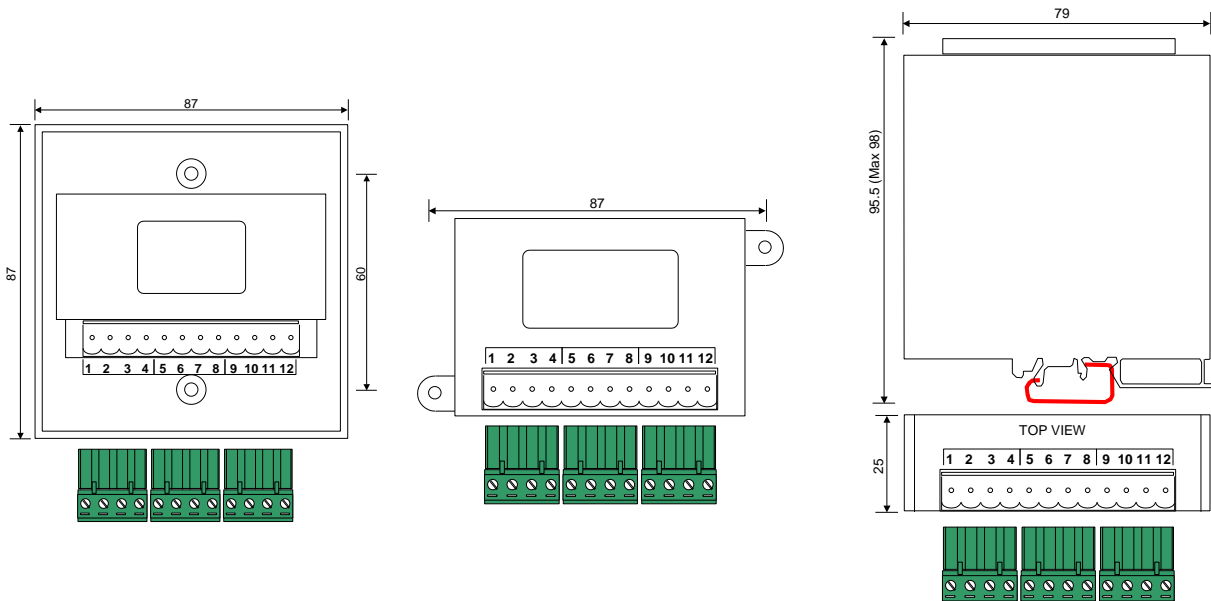
4.3 Modules

4.3.1 Standard Modules

There are five standard types of module available in electrical junction box plate, mini module and DIN rail mounting options. The electrical junction box plate option can be flush or surface mounted (optional boxes MB100, 25mm depth or DMB100, 45mm depth are available).

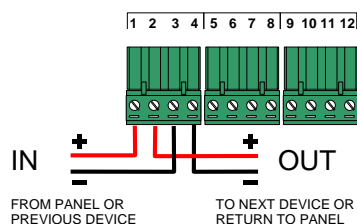
	Plate Module	Mini Module	DIN Module
Input Module	VMI100	VMMI100	VMDI100
Input / Supervised Output Module	VMIC100	VMMIC100	VMDIC100
Supervised Output Module	VMC100	VMMC100	VMDC100
Relay Output Module (Dual Pole – Form C)	VMC120	VMMC120	VMDC120
Input / Output Module (Dual Pole – Form C)	VMIC120	VMMIC120	VMDIC120

Dimensions



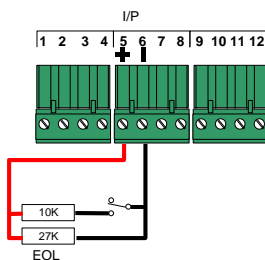
4.3.1.1 Loop Wiring

Loop wiring is common to all modules. Refer to diagram below. Break wiring run to maintain supervision of the loop.



4.3.1.2 Input Module¹

One supervised input EOL = 27Kohm

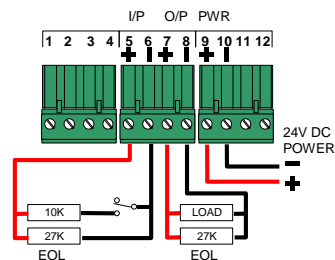


4.3.1.3 Input / Output Module

One supervised input EOL = 27Kohm

One supervised output EOL = 27Kohm,

Maximum rating = 30V DC, 2A



¹ VMIC120, VMMIC120 and VMDIC120 offer the features of the Input and relay output modules in one device. The input and relay output wiring is as defined for the individual input and output modules.



Undefined terminal positions are not used.

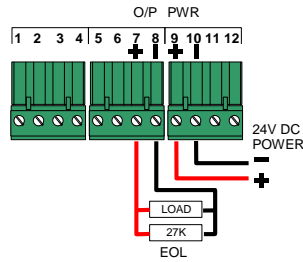
DO NOT use these terminals for the connection of any wiring.

An EN54-4 PSE shall be used to provide 24V DC Power for the I/O and Output modules. Ensure this is of sufficient rating for the applied load.

Outputs must be protected against possible back-emf using a 1N4004 diode (or equivalent) across an inductive load or varistor if the voltage is AC.

4.3.1.4 Supervised Output Module

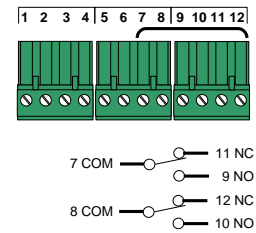
One supervised output EOL = 27Kohm, Maximum rating = 30V DC, 2A



4.3.1.5 Relay Output Module¹

Double Pole Relay Output

Contacts Rating: 30V AC/DC, 2A Resistive



4.3.2 Micro Modules

There are four standard types of micro module available. These provide equivalent functions to and have the same type codes as the standards modules.

Input Module

Supervised Output Module

Relay Output Module (Single Pole – Form C)

Input / Relay Output Module (Single Pole – Form C)

Micro Module

VUMI100

VUMC100

VUMC140

VUMIC140

The modules are provided with a heat-shrink sleeve for protection.

Flying leads are provided for connection.

Input and output specifications are as per standard modules.



Wire Colours	VUMI100	VUMC100	VUMC140	VUMIC140
Loop +	Red (x2)	Red (x2)	Red (x2)	Red (x2)
Loop -	Black (x2)	Black (x2)	Black (x2)	Black (x2)
Input	Orange / Blue			Orange / Blue
Relay			Brown (NO) / Yellow (NC) / Grey (C)	Brown (NO) / Yellow (NC) / Grey (C)
Output		Grey (+) / White (-)		
24V Power		Brown (+) / Blue (-)		

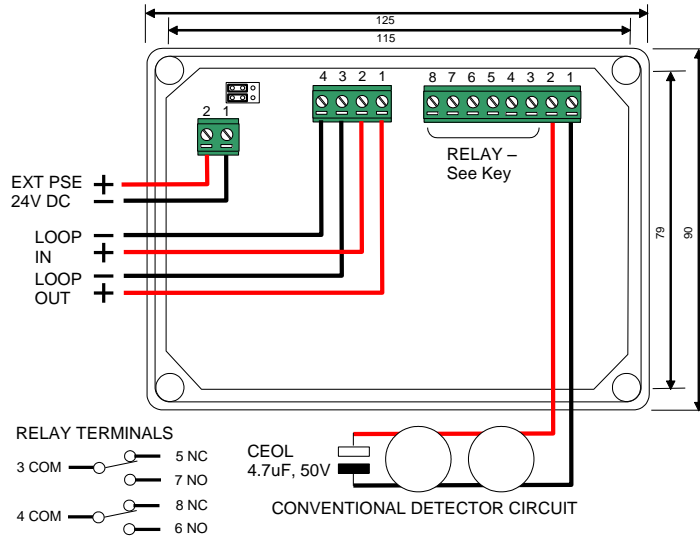
4.3.3 Zone Monitor Module

The VMCZ100 is a 2-wire conventional detector interface compatible with the AV range of conventional detectors (S1000 and S3500 or S100, S200, S300 and S400).

The module employs an end-of-line capacitor to supervise the circuit for open circuit conditions.

The IP54 enclosure dimensions, fixing points and terminal wiring is shown opposite. 20mm knockouts are provided in the enclosure.

The unit may be powered by the loop or by a separate 24VDC EN54-4 PSE. Set both jumpers in accordance with the following arrangement (label on the unit).



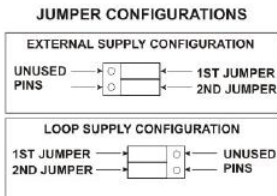
The detector circuit current limit, alarm current and reset time can be adjusted using the PC CONFIG Tool to a range of values to suit the particular application.

The default settings are:

Current Limit: 10mA

Alarm Current: 7.5mA

Reset Time: 1 second



A dual pole relay output is also provided that is configurable and can be used to control (recent reset activation) the power to the detection devices.

Contacts Rating: 30V AC/DC, 2A Resistive

The following zone circuit operating characteristics can be configured using the PC Tool.

Reset Times (Seconds)	Current Limit (mA)	Alarm Current (mA)	Maximum R _{SHORT}
0.5	6.0	2.5	600 Ω
1.0 Default	6.0	4.5	600 Ω
2.0	10.0	2.5	350 Ω
5.0	10.0	5.0	350 Ω
	10.0	7.5 Default	350 Ω
	15.0	5.0	240 Ω
	15.0	10.0	240 Ω
	15.0	12.5	240 Ω
	20.0	7.5	180 Ω
	20.0	10.0	180 Ω
	20.0	12.5	180 Ω
	20.0	15.0	180 Ω

Note: To save loop power, all VMCZ100 modules except the first to enter the alarm condition will disconnect the power from the zone circuit once an alarm has been latched.

Calculate the standby current of the connected devices and select the current limit and alarm limit values to suit the installation. Ensure that the standby current is not more than 50% of the alarm current.

The default settings are recommended for most installations. If the installation includes call points or switches with series resistors, the current limit may require setting to 15mA or 20mA depending on the resistor value to prevent the recognition of a short circuit condition rather than an alarm condition – see table above. For example: If the call point employs a 270 Ω series resistor select a current limit of at least 15mA.

4.3.4 Multiple Input / Output Modules



NOTE: For modules with firmware versions prior to FW V1.55 (refer to label on the product) these should be installed with all addresses wholly within alarm flag groups and which do not cross alarm flag group boundaries – see opposite.

Alarm flag group addresses

1-16, 17-32, 33-48, 49-64, 65-80, 81-96, 97-112, 113-128, 129-144, 145-160, 161-176, 177-192, 193-208, 209-224, 225-240

4.3.4.1 VMIC404

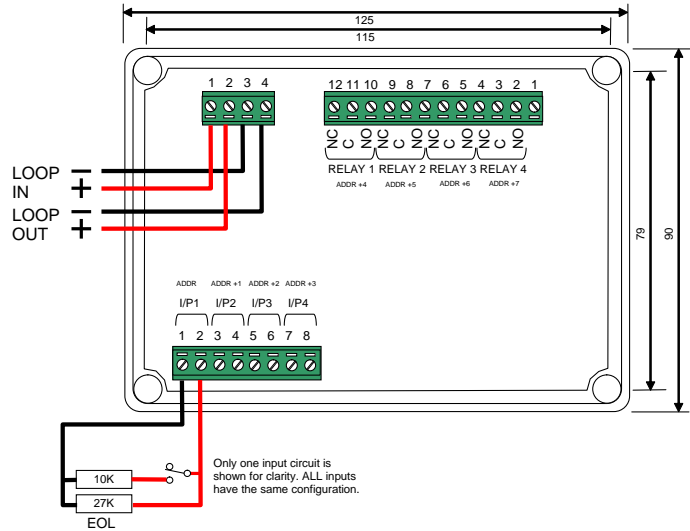
The VMIC404 is a 4-Input and 4-Relay (Form-C) Output Module.

Each input and output is individually configurable and each uses one address on the loop (consecutive addresses). Input 1 is at the first address.

The IP54 enclosure dimensions, fixing points and terminal wiring is shown opposite. 20mm knockouts are provided in the enclosure.

Four supervised inputs EOL = 27Kohm

Relay Contacts Rating: 30V AC/DC, 2A Resistive.



4.3.4.2 VMIC422

The VMIC422 is a 4-Input, 2-Supervised Output and 2-Relay (Form-C) Output Module.

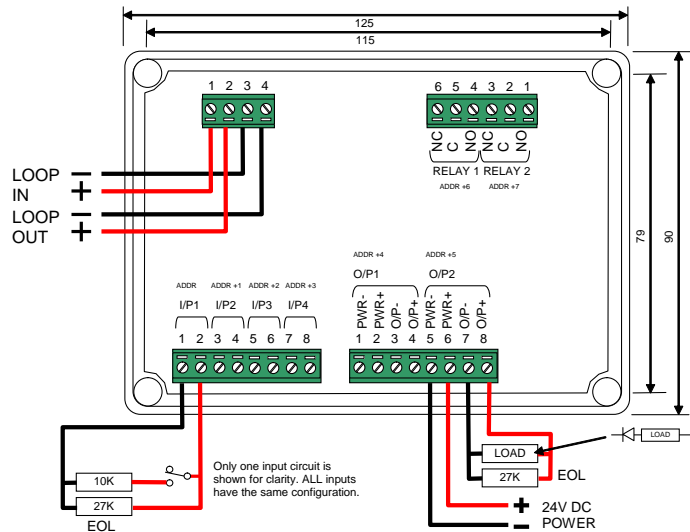
Each input and output is individually configurable and each uses one address on the loop (consecutive addresses). Input 1 is at the first address.

The IP54 enclosure dimensions, fixing points and terminal wiring is shown opposite. 20mm knockouts are provided in the enclosure.

Four supervised inputs EOL = 27Kohm

Relay Contacts Rating: 30V AC/DC, 2A Resistive.

Supervised Outputs: EOL = 27Kohm, Maximum rating = 30V DC, 2A resistive.



An EN54-4 PSE shall be used to provide 24V DC Power for the I/O and Output modules. Ensure this is of sufficient rating for the applied load.

Supervised Outputs are polarity sensitive and reverse polarity supervised. A blocking diode must be used in series with the load.

4.3.4.3 VMIC602

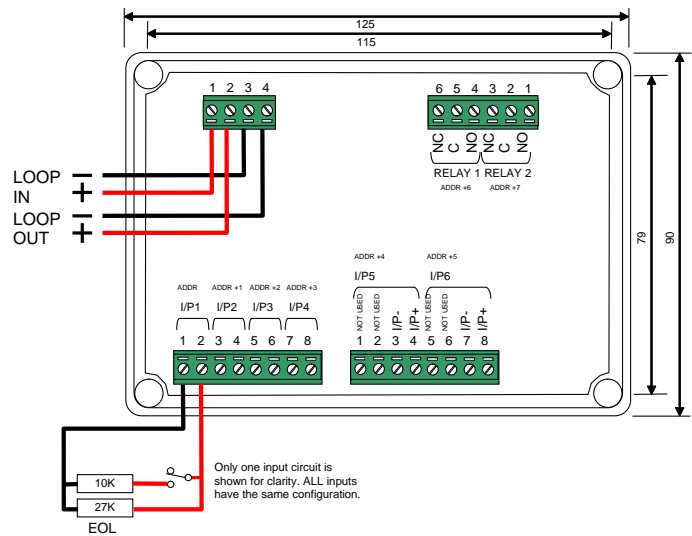
The VMIC602 is a 6-Input and 2-Relay (Form-C) Output Module.

Each input and output is individually configurable and each uses one address on the loop (consecutive addresses). Input 1 is at the first address.

The IP54 enclosure dimensions, fixing points and terminal wiring is shown opposite. 20mm knockouts are provided in the enclosure.

Four supervised inputs EOL = 27Kohm

Relay Contacts Rating: 30V AC/DC, 2A Resistive.



4.4 Sounders

4.4.1 VLS100 Wall Mounting 95dbA Sounder

Volume Selection: Potentiometer

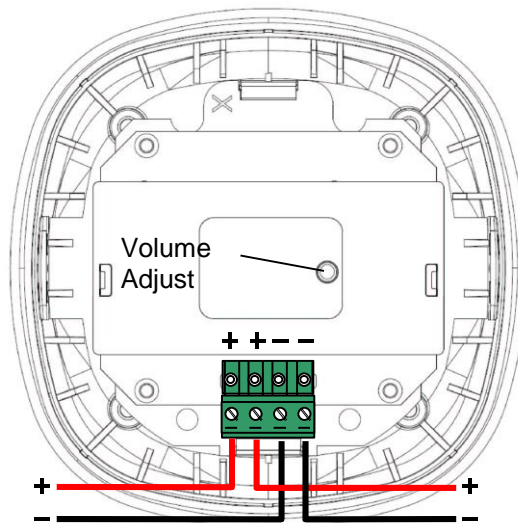
Tone Selection: Programming (PC Tone Selection to Output Group Style – up to 3 tones)

VLS100

- 1 Dual Tone 990Hz/650Hz BS Fire Tone
- 2 Continuous 990Hz BS Fire Tone
- 3 Pulsed 990Hz 1s On / 1s Off

VLS100-H

- 1 Slow Whoop 300>1200Hz Dutch Fire Tone
- 2 Sweep (DIN) 1200>500Hz 1Hz DIN Tone
- 3 Continuous 990Hz Tone



4.4.2 VLS100AV Sounder Beacon

Volume Selection: Potentiometer

Tone Selection: DIP Switch 1-3 Only.

This is a single tone device and there is no PC programming option.

Beacon flashes at a rate of 1Hz

Sounder and Beacon are not independently controlled.

	SW1	SW2	SW3	Tone 1	
	1	1	1	Continuous Tone 990Hz	BS Fire
	0	1	1	Slow whoop 300>1200Hz	Dutch Fire
	1	0	1	Dual Tone 990/650Hz	BS Fire
	0	0	1	Pulsed 990Hz 1s On / 1s Off	
	1	1	0	Not defined	
	0	1	0	Not defined	
	1	0	0	Not defined	
	0	0	0	Sweep 1200>500Hz	DIN

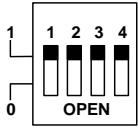
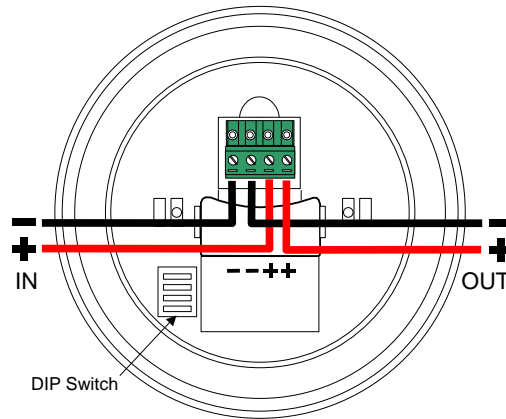
4.4.3 VLBS100 Base Sounder

Volume Selection: DIP Switch 4

1 = High 90dbA, 0 = Low (80dbA)

Tone Selection: Programming (PC Tone Selection to Output Group Style up to 2 tones) & DIP Switch 1-3.

The DIP Switch selects the actual sound output in tone pairs.



SW1	SW2	SW3	Tone 1	Tone 2	
1	1	1	Continuous Tone 910Hz	Dual Tone 910/685Hz	BS Fire Tone
0	1	1	Slow whoop 300>1200Hz	Continuous Tone 910Hz	Dutch Fire Tone
1	0	1	Dual Tone 910/685Hz	Continuous Tone 910Hz	BS Fire Tone
0	0	1	Pulsed 910Hz 1s On / 1s Off	Continuous Tone 910Hz	
1	1	0	Sweep 1200>500Hz	Continuous Tone 910Hz	DIN Tone
0	1	0	Pulsed 910Hz 0.5s On/off, 0.5s On/off 0.5s On followed by 1.5s Off	Continuous Tone 910Hz	ISO8201 ANSI S3.51
1	0	0	Sweep 800>1000Hz 0.5s	Continuous Tone 910Hz	
0	0	0	Sweep 800>970Hz 1s	Continuous Tone 910Hz	

4.4.4 VLBE100 Beacon

The DIP Switch selects the power level and flash rate as follows:

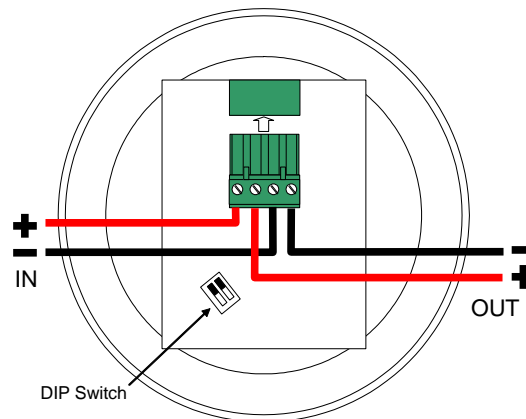
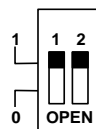
SW-1: Power

0= Low (3mA), 1 = High (6mA)

SW-2: Pulse Rate

0 = 30 pulses / minute,

1= 60 pulses / minute



4.5 Radio Devices

The section only gives brief details of each device. The use of radio devices requires specialist knowledge and training to install, configure and commission. Refer to separate manuals for details.

4.5.1 VW2W100 Wireless Translator Interface

The Wireless Translator is a loop powered module providing the communication with up to 32 wireless devices in accordance with EN54-25. The wireless translator permits the control panel to individually address the wireless devices as though they were physically connected to the loop.

Multiple translator interfaces can be connected to the loop.

4.5.2 SGWE Wireless Expander

The radio coverage distances available with the VW2W100 can be extended by utilising the wireless expander module. Up to 7 wireless expanders can be connected to each VW2W100.

4.5.3 SG100 Wireless Smoke Detector



The SG100 is a fixed sensitivity smoke detector in accordance with EN54-7. The sensitivity level can be set using the Wireless PC Configuration Tool.

4.5.4 SG200 Wireless Smoke Thermal Detector



The SG200 is a fixed sensitivity smoke detector in accordance with EN54-7 and with an additional thermal detection function. The sensitivity level can be set using the Wireless PC Configuration Tool.

4.5.5 SG350 Wireless Thermal Detector



The SG350 is a fixed sensitivity temperature detector in accordance with EN54-5. The device can be configured as an A1R or Fixed Temperature device using the Wireless PC Configuration Tool.

4.5.6 SGCP100 Wireless Call Point

The SGCP100 is an EN54-11 Type A call point.

4.5.7 SGMI100 Wireless Input Module

The SGMI100 is a single supervised input module.

4.5.8 SGMC100 Wireless Relay Output

The SGMC100 is a single relay (Form-C) output module. Requires an external DC supply for operation.

4.5.9 SGRS100 Wireless Wall Sounder

The SGRS100 is a 100dB sounder. The volume can be adjusted by a potentiometer and one of up to three tones can be selected by DIP Switch.

4.5.10 SGBE100 Wireless Wall Beacon

The SGBE100 is similar to the SGRS100AV but with beacon only.

4.5.11 SGRS100AV Wireless Wall Sounder Beacon

The SGRS100AV is similar to the SGRS100 but with beacon. The volume can be adjusted (options: 100dB, 90dB) and up to four tones can be selected by DIP Switch.

4.5.12 SGRBS100 Wireless Sounder Base

The SGRBS100 is a sounder base platform onto which can be mounted the wireless detectors. The volume can be adjusted (options: 100dB, 90dB) and up to thirty-two tones can be selected by DIP Switch.

4.5.13 SGVA100 Wireless Voice Sounder

The SGVA100 provides voice annunciation. Language and alarm messages can be configured by a special PC Tool.

4.5.14 SGFI100 Wireless Remote Indicator

The SGFI100 is an addressable indication device.

4.5.15 SGMCB100 Wireless Battery output Module

The SGMCB100 is similar to the SGMC100 but with the output relay power by the internal battery.

5 Loop Output Drive Capability

The following information is applicable per loop. All loops can be loaded to the maximum (500mA per loop). Provision has been made to allow for a typical loading of detectors and inputs (50mA).

Volume	Number of Loop Powered Sounder Bases
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VLS100

95db	75
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VLS100AV

95db	45
------	----

VLBS100

90db	90
------	----

or

80db	150
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The number of devices shown is representative for specific loop arrangements. If there is a mixture of sounder types or sounder volumes on the installation or if the other devices on the loop take more than 50mA in quiescent or alarm, then calculate the actual current load in alarm using the current consumption figures quoted in the device data sheets and ensure that this does not exceed the maximum output for the loop.