

VMI100 INPUT MODULE, VMC100, VMC120 OUTPUT MODULES, VMIC100 AND VMIC120 INPUT / OUTPUT MODULES



This manual is intended as a quick reference installation quide. Please refer to the manufacturer's control panel installation manual for detailed system information.

GENERAL DESCRIPTION

The Vega module series is a family of microprocessor controlled interface devices permitting the monitoring and/or control of auxiliary devices. The Vega digital communication protocol utilised by the monitoring control panel provides for high rates of information exchange in combination with particular features that ensure fast and secure responses. A bi-colour LED indicator (red/green), one per single channel, is activated by the control panel. The modules are powered by the loop.

SHORT CIRCUIT ISOLATORS

All Vega series modules are provided with short-circuit monitoring isolators installed on the intelligent loop circuitry and can be activated by the control panel.

COMMON TECHNICAL SPECIFICATIONS **

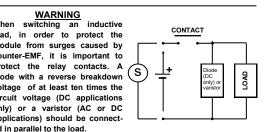
INSTALLATION

The Vega modules must be used in combination with compatible control panels employing the communication protocol for monitoring and cor The location of modules should follow recogn national or international installation codes of tice. Connections to the terminals are polarity s tive thus, please, check them by referring to wiring diagrams and tables for each model. Mod are provided with female terminal blocks, a 27 K end of line resistor and a 10 Kohm alarm resi depending on the model.

CALITION

| nation Vega ontrol. nised prac- sensi- o the dules Kohm sistor, | Loop's voltage range * Average current consumption LED's current consumption Operating temperature range Humidity Dimensions Weight Maximum wire gauge | From 18 V (min) to 40 V (max) 120 uA (@ 24 V) 6 mA (@ 24 V) From -30 °C (min) to +70 °C (max) 95% RH (no condensation) 87 x 87 x 32 mm (w/o gang box) 200 grams 2.5 mm ² |
|--|---|--|
| 13101, | *Product operates down to 15 V, | but without LED indication. |
| _ | **Check latest version of docume obtainable from your supplier. | ent TDS-VMXXX for further data, |
| e | obtainable from your supplier. | ent TDS-VMXXX for further data, UTION Sensitive Device. andling and making connections. |

| Dis | conn | ect looj | o po | NUTION wer before installing t odules. | the |
|---------|-------|----------|------|--|----------|
| | | | N | lodule view | |
| | 87 mm | | | | |
|) L2 | 0 | O L1 | | VMxxxx | 60 mm |
| | O | | | 0 | <u>•</u> |
| | Front | | | Rear | |



SETTING THE ADDRESS

Modules can be addressed by using a special hand-held programming unit or they can be auto-addressed by the control panel after they have been installed (the implementation of the auto-addressing feature depends on the control panel's manufacturer). Addresses may be selected over the range from 1 to 240, although, of course, each device on the loop must have a unique address.

Connect the programmer to the module using the proper cable (refer to the programmer's instruction manual).

After installing all modules and other loop devices, apply power to the loop in accordance with the panel's installation instructions. NOTE: The VMIC100 and VMIC120 input/output modules hold two addresses. The address assigned by the programmer always relates to the input channel; the output channel is automatically assigned the consecutive address.

DEVICE'S MOUNTING

According to local electrical regulations, mount securely to a single gang box using the provided screws.

MAINTENANCE

Test the modules periodically according to local codes of practice. Those devices contain no serviceable part, so, should a fault develop, return them to your system supplier for exchange or disposal, according to warranty conditions,

| INPUT module | | | Terminal | Description |
|--------------|---|----|-------------------|----------------------|
| | | 1 | Loop line IN (+) | Loop positive input |
| 0 | The VMI100 single channel super- | 2 | Loop line OUT (+) | Loop positive output |
| | vised input module provides monitoring of normally open contact fire alarm and supervisory devices. End of line resistor (R _{ed}):27 Kohm. Alarm resistor (R _w):10 Kohm. | 3 | Loop line IN (-) | Loop negative input |
| VMI100 | | 4 | Loop line OUT (-) | Loop negative output |
| 1 56 12 | | 5 | Input (+) | Supervised input (+) |
| •••• | | 6 | Input (-) | Supervised input (-) |
| Þ | | 7 | Not used | |
| | | 8 | Not used | |
| | | | | |
| | | 10 | Not used | |
| Reol | | 11 | Not used | |

12

Not used

Terminal Description **OUTPUT** supervised module Loop line IN (+) Loop positive input Loop line OUT (+) Loop positive output 2 The VMC100 single channel \odot Loop line IN (-) Loop negative input 3 supervised output module provides control, by closing contacts, 4 Loop line OUT (-) Loop negative output VMC100 of auxiliary devices such as fire Not used 5 shutters. 7 8 910 12 6 Not used ···· End of line resistor (Reol):27 Kohm. Load (+) Supervised output (+) Load (-) Supervised output (-) 8 Relay contact ratings are: 9 Load power (+) Load's power supply (+) 30 V_{dc} 2 A or 30 V_{ac} 2 A (resistive load). 10 Load power (-) Load's power supply (-) Not used 11 Not used 12 Load's power

| OUTPUT relay module | | | Terminal | Description |
|----------------------|--|----|-------------------|------------------------|
| | | 1 | Loop line IN (+) | Loop positive input |
| | | 2 | Loop line OUT (+) | Loop positive output |
| | vmc120 output module provides pole changeover contacts for the control of auxiliary devices such | 3 | Loop line IN (-) | Loop negative input |
| 1/4/01/20 | | 4 | Loop line OUT (-) | Loop negative output |
| | | 5 | Not used | |
| | 1 7 8 9101112 as fire shutters. | | Not used | |
| | $\textcircled{0}$ $\overrightarrow{0}$ | 7 | Common 1 | Relay contact terminal |
| © | | 8 | Common 2 | Relay contact terminal |
| | (resistive load). | | Normally open 1 | Relay contact terminal |
| 11 | | 10 | Normally open 2 | Relay contact terminal |
| ¹¹ 9 7 | | 11 | Normally closed 1 | Relay contact terminal |
| 128 | | 12 | Normally closed 2 | Relay contact terminal |
| 108 | | | - | |

WARNINGS AND LIMITATIONS

Our devices use high quality electronic components and plastic materials that are highly resistant to environmental deterioration. However, after 10 years of continuous operation, it is advisable to replace the devices in order to minimize the risk of reduced performance caused by external factors. Ensure that these modules are only used with compatible control panels. Detection systems must be checked, serviced and maintained on a regular basis to confirm correct operation. Refer to and follow national codes of practice and other internationally recognized fire engineering standards. Appropriate risk assessment should be carried out initially to determine correct design criteria and updated periodically.

WARRANTY

All devices are supplied with the benefit of a limited 5 years warranty relating to faulty materials or manufacturing defects, effective from the production date indicated on each product. This warranty is invalidated by mechanical or electrical damage caused in the field by incorrect handling or usage. Product must be returned via your authorized supplier for repair or replacement together with full information on any problem identified. Full details on our warranty and products returns policy can be obtained upon request.

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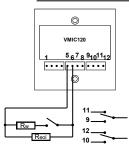
info@argussecurity.it

| <u>INPUT / OUTPUT supe</u> | ervised modu |
|--|--|
| VMIC100 1 567891012 CONTRACTOR AI CONTRACTOR CONT | he VMIC100 inp ppervised module ngle device super tuput characteristic and of line resistor (R_w): elay contact rating $0 V_{ac}$, 2 A or 30 V_{ac} esistive load). |

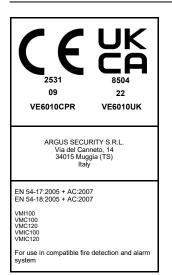
| ed module | | Terminal | Description | | |
|---|----|-------------------|-------------------------|--|--|
| | 1 | Loop line IN (+) | Loop positive input | | |
| IC100 input and output | 2 | Loop line OUT (+) | Loop positive output | | |
| d module combine in a | 3 | Loop line IN (-) | Loop negative input | | |
| vice supervised input and | 4 | Loop line OUT (-) | Loop negative output | | |
| aracteristics. | 5 | Input (+) | Supervised input (+) | | |
| e resistor (R _{eol}):27 Kohm. | 6 | Input (-) | Supervised input (-) | | |
| sistor (R _w):10 Kohm. | 7 | Load (+) | Supervised output (+) | | |
| ntact ratings are: | 8 | Load (-) | Supervised output (-) | | |
| A or 30 V _{ac} , 2 A | 9 | Load power (+) | Load's power supply (+) | | |
| load). | 10 | Load power (-) | Load's power supply (-) | | |
| | 11 | Not used | | | |
| | 12 | Not used | | | |

Terminal

INPUT / OUTPUT relay module



| | 1 | Loop line IN (+) | Loop positive input |
|--|----|-------------------|------------------------|
| The VMIC120 input and output | 2 | Loop line OUT (+) | Loop positive output |
| relay module combine in a single | 3 | Loop line IN (-) | Loop negative input |
| device supervised input and relay output characteristics. | 4 | Loop line OUT (-) | Loop negative output |
| • | 5 | Input (+) | Supervised input (+) |
| End of line resistor (R _{eol}):27 Kohm. Alarm resistor (R _w):10 Kohm. | 6 | Input (-) | Supervised input (-) |
| | 7 | Common 1 | Relay contact terminal |
| Relay contact ratings are: | 8 | Common 2 | Relay contact terminal |
| 30 V _{dc} , 2 A or 30 V _{ac} , 2 A (resistive load). | 9 | Normally open 1 | Relay contact terminal |
| · · · · · · | 10 | Normally open 2 | Relay contact terminal |
| | 11 | Normally closed 1 | Relay contact terminal |
| | 12 | Normally closed 2 | Relay contact terminal |



Description