

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



This manual is intended as a quick reference installation guide. 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 LECHNICAL SPECIF	
INSTALLATION The Vega modules must be used in combination with compatible control panels employing the Vega communication protocol for monitoring and con- trol. The location of modules should follow recog- nised national or international installation codes of	Loop's voltage range * Average current consumption LED's current consumption Operating temperature range Humidity	
sensitive tolus, please, check them by referring to the wiring diagrams and tables for each model. Modules are provided with female terminal blocks, a 27 Kohm end of line resistor and a 10 Kohm alarm resistor, depending on the model.	Weight Maximum wire gauge *Product operates down to 15 V, *Check latest version of docume	

COMMON TECHNICAL SPECIFICATIONS **			
Loop's voltage range *	From 18 V (min) to 40 V (max)		
Average current consumption	120 uA (@ 24 V)		
LED's current consumption	6 mA (@ 24 V)		
Operating temperature range	From -30 °C (min) to +70 °C (max)		
Humidity	95% RH (no condensation)		
Dimensions	87 x 87 x 32 mm (w/o gang box)		
Weight	200 grams		
Maximum wire gauge	2.5 mm ²		
Product operates down to 15 V, but without LED indication.			

**Check latest version of document TDS-VMXXX for further data, obtainable from your supplier.

This module may only be used in such a way that there is no transmission path in the sense of VdS 2543 between the module inputs and the contacts of the fire detector or of the device that is to be monitored. Therefore, the module must be installed in the housing of the fire detector or of the device that is to be monitored, or must be monited directly next to these devices (at a maximum distance of 10 cm).



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- vised input module provides monitoring of normally open contact fire alarm and supervisory	2	Loop line OUT (+)	Loop positive output
VMI100 1 5 6 12 ••••• Alarm resistor (R _w):10		3	Loop line IN (-)	Loop negative input
		4	Loop line OUT (-)	Loop negative output
	devices.	5	Input (+)	Supervised input (+)
	End of line resistor (R _{eol}):27 Kohm. Alarm resistor (R _w):10 Kohm.	6	Input (-)	Supervised input (-)
		7	Not used	
		8	Not used	
		9	Not used	
		10	Not used	
Reol		11	Not used	

Not used

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OUTPUT relay module		Terminal Description		Description
		1	Loop line IN (+)	Loop positive input
		2	Loop line OUT (+)	Loop positive output
	The VMC120 single channel relay output module provides pole changeover contacts for the control of auxiliary devices such as fire shutters.	3	Loop line IN (-)	Loop negative input
2/11/2120		4	Loop line OUT (-)	Loop negative output
VMC120		5	Not used	
<u>1 7 8 910¹¹12</u>		6	Not used	
$ \begin{tabular}{ c c c c c } \hline \hline & & & & & & & \hline \\ & & & &$	Relay contact ratings are:	7	Common 1	Relay contact terminal
	30 V _{dc} , 2 A or 30 V _{ac} , 2 A	8	Common 2	Relay contact terminal
	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

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.

INPUT / OUTPUT	supervised mod
	The VMIC100 ir suppervised modu single device sup- output characteris? End of line resistor Alarm resistor (R_w Relay contact ratir 30 V _{dc} 2 A or 30 V (resistive load).

lule	Terminal		Description		
nput and output le combine in a ervised input and tics.	1	Loop line IN (+)	Loop positive input		
	2	Loop line OUT (+)	Loop positive output		
	3	Loop line IN (-)	Loop negative input		
	4	Loop line OUT (-)	Loop negative output		
	5	Input (+)	Supervised input (+)		
r (R _{eol}):27 Kohm.):10 Kohm.	6	Input (-)	Supervised input (-)		
	7	Load (+)	Supervised output (+)		
ngs are: / _{ac ,} 2 A	8	Load (-)	Supervised output (-)		
	9	Load power (+)	Load's power supply (+)		
	10	Load power (-)	Load's power supply (-)		
	11	Not used			
	12	Not used			

Terminal

INPUT / OUTPUT relay module



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*		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	
output characteristics.	4	Loop line OUT (-)	Loop negative output	
· · · · · · · · · · · · · · · · · · ·	5	Input (+)	Supervised input (+)	
End of line resistor (R _{eol}):27 Kohm.	6	Input (-)	Supervised input (-)	
Alarminesistor (IVw). To Konini.	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