

INSTALLATION INSTRUCTIONS FOR THE VMMI100 INPUT MINI-MODULE, VMMC100. VMMC120 OUTPUT MINI-MODULES, VMMIC100 AND KM518520 G212064, G21206

VMMIC120 INPUT / OUTPUT MINI-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 mini-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 mini-modules are powered by the loop. SHORT CIRCUIT ISOLATORS

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

INSTALLATION

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

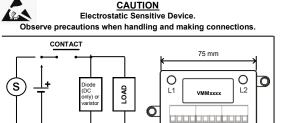
Loop's voltage range *	From 18 V (min) to 40 V (max)
Average current consumption	120 uA (@ 24 V)
LED's current consumption	6 mA (@ 24 V)
Operating temperature range	From -30 °C (min) to +70 °C (max)
Humidity	95% RH (no condensation)
Dimensions	75 x 52 x 28 mm (w/o brackets)
Weight	180 grams
Maximum wire gauge	2.5 mm ²
*Product operates down to 15 V,	
**Check latest version of docum	ent TDS-VMXXX for further data,

obtainable from your supplier.

COMMON TECHNICAL SPECIFICATIONS **

CAUTION Disconnect loop power before installing the minimodules.

WARNING When switching an inductive load, in order to protect the mini-module from surges caused by counter-EMF, it is important to protect the relay contacts. A diode with a reverse breakdown voltage of at least ten times the circuit voltage (DC applications only) or a varistor (AC or DC applications) should be connected in parallel to the load.



SETTING THE ADDRESS

Mini-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 VMMIC100 and VMMIC120 input/output mini-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

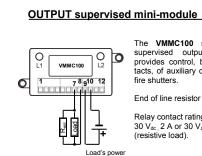
Mount securely within an electrical box or enclosure according to local electrical regulations.

MAINTENANCE

Test the mini-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 mini-module	
	The VMMI10 supervised i provides mon open contact fi visory devices. End of line resi Alarm resistor

	1	Terminal	Description
	1	Loop line IN (+)	Loop positive input
00 single channel	2	Loop line OUT (+)	Loop positive output
input mini-module	3	Loop line IN (-)	Loop negative input
nitoring of normally fire alarm and super-	4	Loop line OUT (-)	Loop negative output
S.	5	Input (+)	Supervised input (+)
	6	Input (-)	Supervised input (-)
sistor (R _{eol}):27 Kohm. ⁻ (R _w):10 Kohm.	7	Not used	
(R _w). To Romm.	8	Not used	
	9	Not used	
	10	Not used	
	11	Not used	
	12	Not used	



		Terminal	Description
	1	Loop line IN (+)	Loop positive input
	2	Loop line OUT (+)	Loop positive output
single channel ut mini-module	3	Loop line IN (-)	Loop negative input
by closing con- devices such as	4	Loop line OUT (-)	Loop negative output
	5	Not used	
	6	Not used	
r (R _{eol}):27 Kohm.	7	Load (+)	Supervised output (+)
	8	Load (-)	Supervised output (-)
ngs are:	9	Load power (+)	Load's power supply (+)
/ _{ac ,} 2 A	10	Load power (-)	Load's power supply (-)
	11	Not used	
	12	Not used	

OUTPUT relay mini-module				Terminal	Description
[The VMMC120 single chann relay output mini-module provide pole changeover contacts for th	1	Loop line IN (+)	Loop positive input	
		relay output mini-module provides pole changeover contacts for the control of auxiliary devices such as fire shutters. Relay contact ratings are: $30 V_{dc}$, 2 A or $30 V_{ac}$, 2 A	2	Loop line OUT (+)	Loop positive output
			3	Loop line IN (-)	Loop negative input
			4	Loop line OUT (-)	Loop negative output
			5	Not used	
			6	Not used	
			7	Common 1	Relay contact terminal
			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

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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 mini-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 3 year 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.

VdS

G212063, G212067

G212065

info@argussecurity.it

INPUT / OUTPUT supervised mini-module		Terminal	Description
	1	Loop line IN (+)	Loop positive input
The VMMIC100 input and output	2	Loop line OUT (+)	Loop positive output
	3	Loop line IN (-)	Loop negative input
L1 VMMIC100 L2 a single device supervised input	4	Loop line OUT (-)	Loop negative output
and output characteristics.	5	Input (+)	Supervised input (+)
$\mathbf{O} \begin{bmatrix} 1 & 5 & 6 & 7 & 8 & 910 & 12 \\ \hline & & & & & & \\ \hline & & & & & & \\ \hline & & & &$	6	Input (-)	Supervised input (-)
Alarm resistor (R _w):10 Kohm.	7	Load (+)	Supervised output (+)
	8	Load (-)	Supervised output (-)
Relay contact ratings are:	9	Load power (+)	Load's power supply (+)
Reol Load G (resistive load).	10	Load power (-)	Load's power supply (-)
	11	Not used	
	12	Not used	

INPUT / OUTPUT relay mini-module		Terminal		Description
	· · · · ·	1	Loop line IN (+)	Loop positive input
	The VMMIC120 input and output relay mini-module combine in a single device supervised input and relay output characteristics.	2	Loop line OUT (+)	Loop positive output
		3	Loop line IN (-)	Loop negative input
$ \begin{array}{c} 1 \\ 1 \\ 5 \\ 6 \\ 7 \\ 8 \\ 7 \\ \hline \hline$		4	Loop line OUT (-)	Loop negative output
		5	Input (+)	Supervised input (+)
	End of line resistor (R_{eo}):27 Kohm. Alarm resistor (R_w):10 Kohm. Relay contact ratings are: 30 V _{dc} , 2 A or 30 V _{ac} , 2 A (resistive load).	6	Input (-)	Supervised input (-)
		7	Common 1	Relay contact terminal
		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

