

Installer manual

EMC.W Wi-Fi connecting module

ELVOX Gates

ECR.W



Description

Wi-Fi module for connecting .W series control panels and receivers to Android and iOS smartphones and tablets via app, through remote connection via the By-gate app for end users and remote and local connection via the By-gate Pro app for installers.

Connection

Connect the module to the CNX1 connector of the .W series electronics.

The EMC.W module can also be inserted and removed to powered boards without any damage, but power fluctuations could cause the board on which the module is inserted to be rebooted in the event of hot connections.

DIP functions

Dip	Function	Status	Description	
		OFF	Module in normal operation	
DIP 1	Module reset	ON	Module reset, resets the default settings on the module (the administrator username and password are stored on the MEM.W memory board). To reset the default settings move the Dip to ON and reboot the board to which the module is connected. As soon as the DL1 LED starts to blink green, turn the Dip to OFF. Settings reset: Mode: Access point Network name (SSID): VIMAR_XXXXX Password: 12345678 Channel: 11 Security: WPA-PSK IP address: 192.168.1.1 Netmask IP: 255.255.255.0 DHCP: On (selectable only in Station mode) DHCP range: 192.168.1.2 Resetting the default settings of the module is - Access point , if the password for the network generated by the module has been lost (restore default password 12345678) - client, to reconfigure the settings of the metwork to which the module must be connected or if the module sharing password has been lost (administrator password).	
DIP 2	No function			
DIP 3	Reserved		Always leave OFF	
DIP 4	FW updates		Used for updating firmware (refer to firmware update instructions)	

Module settings

The module does not require manual configuration because:

- Local operation:

The module is preconfigured with factory settings (operating as an Access Point that generates a Wi-Fi network) in order to operate through direct local connection with a smartphone or tablet.

- Remote operation:

To connect the module remotely via the Cloud (both for end users and for installers), the module still needs to be set up as an Access Point (factory setting) and then enrolled to the automations Cloud by the gateway administrator, via the By-gate App. The App will automatically configure the module to connect to the existing Wi-Fi network based on the connection settings entered by the gateway administrator.

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Alternatively, you can access the module settings page directly via the Web using any browser, by typing the module's IP address into the address bar:

- in the case of local operation (default setting) with the module operating as an Access Point, simply connect to the network generated by the module and enter the IP address 192.168.1.1.
- in the case of remote operation with the module operating as a elient Station, you need to connect to the same Wi-Fi network to which the module is connected and enter its IP address within the network (various third-party tools can be used to identify devices connected over the local network and their assigned IP addresses, e.g. FING).

Once the module is connected, the status screen will be displayed.

Status screen in Access point mode:

Status screen in Station mode:



Current configuration:

Mode:	Access Point
SSID:	VIMAR 4A53E1
MAC Address	s: 00-0B-57-4A-53-E1
Channel:	11
Security:	WPA-PSK
FW version:	3.04



Current configuration:

 Mode:
 Station

 Router SSID:
 FreeInternet

 MAC Address:
 0.00-57-4A-53-E1

 IP address:
 172.20.50.52

 IP netmask:
 255.255.05

 IP gateway:
 172.20.50.1

 FW version:
 3.04

Parameter	Description		
Access Point: The module acts as HTTP and TCP server. It is possible to co module, e.g. via a Smartphone. The module is not part of a prinetwork. Mode Station: The module acts as HTTP and TCP client. The module conner network and, according to the modem/router configuration, ca Internet.		The module acts as HTTP and TCP server. It is possible to connect directly to the module, e.g. via a Smartphone. The module is not part of a previously existing network. The module acts as HTTP and TCP client. The module connects to an existing network and, according to the modem/router configuration, can be seen via the Internet.	
SSID (Router)	Access point: Station:	Name of Wi-Fi network generated by the module. Wi-Fi network the module is connected to	
MAC Address Access point: Module Mac address. Station: Module Mac address.		Module Mac address. Module Mac address.	
Channel	Access point:	Communication channel used by the module in access point mode	
Security	Access point:	Security used by the module in access point mode for Wi-Fi communication	
IP address	Station:	The module's IP address	
IP netmask	Station:	The module's subnet mask	
IP gateway	Station:	IP address of the LAN gateway to which the module is connected	
FW version	The module's firmware version		

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Access Point Screen

	IMAR		
<u>Status</u>	Access Point	Station	Cloud

Access point configuration:

VIMAR_4A53E1	
11 🗸	
WPA-PSK 🗸	
*******	(8-63 characters)
192.168.1.1	
255.255.255.0	
\checkmark	
192.168.1.2	
	VIMAR_4A53E1 11 V WPA-PSK V 192.168.1.1 255.255.2 I92.168.1.2

	1			
Parameter	Values	Description		
	Free choice	Name of Wi-Fi network generated by the module.		
3310		For recognition issues we recommend you leave the default name.		
Channel	1 to 11	Communication channel used (default 11).		
Socurity	OPEN:	o security (anyone may connect to the network).		
Security	WPA-PSK	WPA-PSK protection (default setting).		
Password	Free choice	Password required to access the Wi-Fi network generated by the module. The password must contain letters and numbers (no special characters) and must have between 8 and 63 characters.		
IP address	Not modifiable	Module IP address (default password: 12345678).		
IP netmask	Not modifiable	Method used to define the address range of a host in an IP subnet.		
DHCP		The Wi-Fi module acts as DHCP server (setting not modifiable), the module automatically assigns the IP addresses to the connecting devices.		
DHCP range	Not modifiable	Range of IP addresses assigned by the module when configured as DHCP server Not modifiable as the module accepts only one connection at a time.		

Note:

The Wi-Fi module accepts only one connection at a time. If you try to connect with more than one device, the module will refuse the connection of the second device attempting to connect.

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Station (client) screen

If the module is installed on an electronic unit that has already been enrolled in the Cloud, in order to access the module you need to know the password of the device set by the administrator during enrolment (during the "Add gateway as administrator" on the By-gate App):

	VIMAR
_	Status Access Point Station Cloud
	Station configuration:
User Login	Available networks: Manual configuration 🗸
Login status not authenticated	SSID: FreeInternet
Password Enter Password	Password:
Login	DHCP:

Once logged in, you will be able to access the settings. Click on the "Station" tab to display the module's settings for operation as a client:

Parameter	Values	Description		
Available networks	Multiple choice	All the visible Wi-Fi networks detected by the module at startup are displayed here. The selected network is the Wi-Fi network that the module attempts to connect to.		
SSID	Free choice	his is the name of the Wi-Fi network that the module attempts to connect to. This ald can be edited to allow the module to connect to private networks.		
Password	Free choice	This is the password of the selected Wi-Fi network. If the selected Wi-Fi network is not password-protected, leave this field blank.		
	•	The module receives the IP address from the DHCP server on the local network (default).		
DHCP		Uncheck so the module's IP settings are fixed and assigned by the user. Selecting this displays the following settings: - IP address - netmask - IP gateway		
IP address	Free choice	IP address assigned to the module if DHCP is deactivated.		
IP netmask	Free choice	Subnet mask.		
IP gateway	Free choice	IP address of the network gateway to which the module is connected.		

VIMAR

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Cloud Settings

This tab shows the settings that the module uses to connect to the Automations Cloud. Do not change these default settings, otherwise the module will not be able to connect to the Cloud.

VIMAR						
Status	Access Point	<u>Station</u>	Cloud			
Cloud configuration:						
HOST domain:	by-gate.vimar.cloud					
HOST IP:	178.23.171.63					
HOST port:	9996					
use HOST domain use HOST IP use TCP use TLS Save Rebool						

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LED colour	Module mode	LED status	Blink cycle	LED meaning
Green	Access point	On steady	-	Start-up as Access Point
		Blinking	SINGLE blink	Ready for connection via App or web
			DOUBLE blink	Connected to App
			TRIPLE blink	Stop or no Access Point start-up
			QUADRUPLE blink	No Access Point start-up
	Station	On steady	-	Start-up as Station
		Blinking	SINGLE blink	Connected to the Wi-Fi network, but not connected to the Automations Cloud
			DOUBLE blink	Connected to the Wi-Fi network and connected to the Automations Cloud
Red			TRIPLE blink	Wi-Fi network connection lost (e.g. weak router signal or router switched off). Incorrect Wi-Fi connection parameters (e.g. router password edited).
			QUADRUPLE blink	Incorrect Wi-Fi password during enrolment with Cloud.

By-gate and By-gate Pro

For the remote control, configuration and diagnostics of control panels for ELVOX automations in the .W series, the By-gate and By-Gate Pro Apps for Android™ and iOS can be downloaded from Google Play™ Store and App Store®

Conformity to Standards

Vimar SpA declares that the reference radio equipment type EMC.W complies with Directive 2014/53/EU. The full text of the EU declaration of conformity is on the product sheet available at the following Internet address: www.vimar.com.

REACH (EU) Regulation no. 1907/2006 - Art.33.

The product may contain traces of lead.



