EWEB / EWEB Plus / EWEB WIFI - LAN network board (ETHERNET / WIFI)

EWEB, EWEB PLUS and EWEB WIFI are devices for networking the control unit in Ethernet LAN or Wi-Fi.

EWEB WIFI (in image area)

EWEB

CONTACT ID IP and SIA IP digital protocols toward supervision systems with AES128bit encryption
Connecting to a PC via XWIN/HPWIN software for control panel programming and real-time monitoring
DNS client
DDNS client

EWEB
EWEB PLUS

EWEB PLUS / EWEB WIFI (in addition to EWEB operation)

• Web server: system status on graphical map, system on-off, output on-off, event log check, diagnostics and zone exclusion
• SMTP client for sending emails with attachments
• Management of the AVS-XLINK protocol for integration ELM software or other systems
• Management of the "my avs alarm" mobile app for iOS and Android, in the free or Premium versions (subscription):
• Complete management of the Cloud system through AVS CLOUD Server, sectors ON-OFF, management scenarios, home automation controls, zone status control, diagnostics, reading of events log
• Images captured live by the cameras connected to the TCP-IP network, compatible with ONVIF S® or MJPEG®
• Receipt of Alarm, On-Off and System Fault push notifications
• Display of climate data from compatible NETATMO® devices

NOTE ®: These are proprietary brands

EWEB WIFI

	EWEB	EWEB Plus	EWEB WIFI
Connection to control unit	•	plug-in with connector J3 - CONN ETH	
External connections:	•	ETHERNET RJ45, 10/100 Mbit/s	2.4GHz 802.11 b/g
Absorption:	•	typical: 80 mA	typical: 100 mA
Dimensions of board:	•	70 x 15 x 60 mm	
Declaration	•	The Ethernet modules used are compliant with the R&TTE 99/05/EC directive as declared by the same manufacturer on its own responsibility.	
Standard compliances	•	EN50131-1, EN50131-3, EN50136-2, EN50131-10	
Security Grade	•	2	
Environmental Class	•	Class II	
Weight	•	0,065 Kg	
Type of transmission system	•	SP1 o DP1	
Operating mode (Acknoweledgement)	•	Pass through	
AS Interface	•	Proprietary serial interface on "CONN ETH"	
Monitoring Ethernet Network	•	Periodic "Keep alive" messaging	

Circuit enabling

a. Both battery and mains power supply must be totally switched off.
b. The special plastic supports must be fit into the holes on the control unit board with the guides facing inwards.
c. Fit the board into the **J3 - CONN ETH** connector by sliding it in the support guides until it locks.
d. Break the fitting at the top right on the control unit box.
e. Pass the antenna cable through the hole and fit it on the fitting.
f. Insert the antenna and fix it by tightening the nut firmly.
g. Connect the antenna cable to the module
h. Switch on the control unit power supply.

Additional power supply

An external power source could become necessary to use depending on the load connected to the control unit. In this case, put bridge **S5** in position **2-3** and use the connector **J4** for powering the module, where **1 = +** and **2 = -**
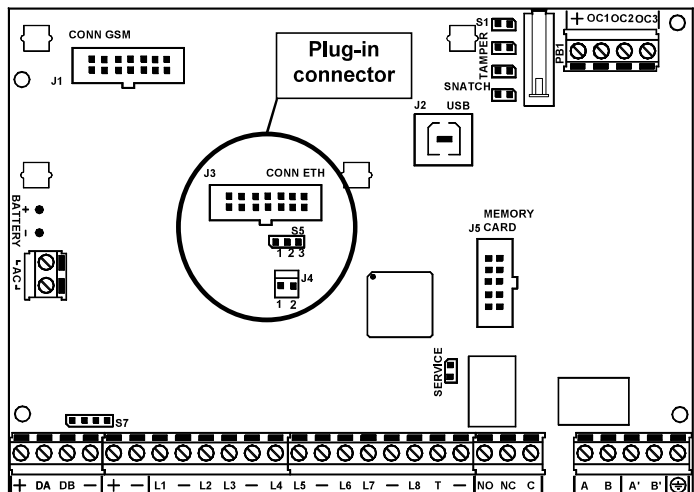
NOTE: If installed XGSM or XGSM485, use an additional power supply at 12 V = at least 500mA

Hints on sectors management

La CAPTURE includes the management of the sectors.

This means that up to **8 system** in the **CAPTURE 32, CAPTURE 64** e **CAPTURE 128,** up to **4 system** in the **CAPTURE 16** and **CAPTURE 8** independent between them can be created with the control panel. In case of having to manage detectors in common between different sectors, associate them to the various sectors to which they must refer.

If the "OR Zones" function is disabled, these zones will be activated only when all the sectors to which they are associated are switched on.

The amount of sectors active in the system, meaning how many sectors exist therein independently, is defined during programming.

The sectors are useful when there is the need to have more systems managed by a single control panel. The normal applications, managing only one system, do not require the use of this function, therefore only sector 1 will be active and all the zones associated to it.

Armings

The sectors can be activated in different modalities, one from the other. Example: sector 1 can be armed in ON modality, whereas sectors 2 and 3 are armed in AREA modality. Should there be, at any moment, zones associated to more sectors, these would result being automatically armed in the lowest level modality present between the sectors to which they belong, where the highest level corresponds to arming ON and in decreasing order, HOME, ZONE and PERIMETER.

Every zone used by the control panel must be associated to a sector and will result active when said sector is armed in an arming modality containing this zone.

The conditions that allow forcing are:

* Zone type Secondary FAILURE, MASKING
* Zone in antimask status
* Zone in survival status
* CENTRAL CONTROL UNIT AND SATELLITES
  * Absence of network
  * Power feeder failure
  * Recharger failure
  * Low voltage on '+' power outputs and on '+ Vpot' output
  * Battery low / battery failure / no battery

The conditions that do not allow forcing are:

* Central control unit tamper
* TamperSwitch KEYBOARDS / TamperCom KEYBOARDS
* TamperSwitch SATELLITE / TamperCom SATELLITE
* Radio interference
* TamperSwitch INSWCPU RS / TamperCom INSWCPU RS
* No Tel. Line / Tel. Line / GSM Fault malfunctions
* Zone camper status
* "TAMPER" or "HOLD-UP" zone type open
* Primary FAILURE zone type open
* INSTANT zone type open
* internal instant and timed zones with "OFF times" open

The switch-on can be forced, using the relative controls contained in the guided user menu, accessible by pressing the ENT Key after gaining access with the user code.

Alarm outputs

The alarm outputs of the system activate when an alarm occurs in one or more sectors, but can only be deactivated by disarming the sector to which the zone that caused the alarm in progress belongs. This is true for both the relay outputs and the Open Collector outputs. Certain functions applicable to the Open Collector outputs require specifying the number of the sector of reference. **Example:** arming OC, OC from user, etc.

Keypads

The system keypads must be associated to one or more sectors. This determines which alarm messages are displayed therein The zone alarms are shown only if relating to zones of the associated sectors. The technical alarms are always shown.

The quick arming function (**Quick Arm**) is linked to the keypad on which it is performed. With this procedure, the sector to which the keypad is associated or, simultaneously, all sectors to which it is associated, is activated.

The "0 active zones" message, upon exiting the installer code, is displayed on keypad when the common zones are not associated to the four different arming modalities (ON, HOME, ZONE, PERIMETER). This visualisation disappears when a user code is entered.

After having armed a sector, the "**0 active zones**" message is displayed on keypad to signal the user that there are no zones active in that arming modality.

User Codes

The user codes must be associated to one or more sectors and have access to them only through the keypads associated to their sectors. If a code is associated to one or more sectors and also set as "**Master user**", it can access the sectors of competence from any keypad. When a user is associated to more sectors and to the function "**Sectors sum**", it can arm or disarm all systems (associated to it) simultaneously, by pressing 0 (zero). The users associated to a specific sector, if enabled, can consult the control panel events memory, viewing only the events relating to their sector. A user associated to all sectors can view the full events memory. With regard to the exclusion of the zones and activation of the O.C. outputs from keypad, the user is enabled to work only on zones and O.C. under the responsibility of its sector; if the O.C. is associated to more sectors, it will be managed by all users linked to the same sectors of the O.C..

Example of keypad behaviour

User 1 associated to sectors 1, 2, 3, 4 and set as "Master user -> NO"

The Users 2/3 are set as "Master user -> NO"

Users/Sectors	KEYPAD (sector 1, 2, 3, 4)	KEYPAD (sector 1)	KEYPAD (sector 2)
USER 1 (sector 1, 2, 3, 4)	sectors choice	display sector 1	display sector 2
USER 2 (sector 1)	display sector 1	display sector 1	unauthorised
USER 3 (sector 2)	display sector 2	unauthorised	display sector 2

Only User 1 associated to sectors 1, 2, 3, 4 and set as "Master user -> YES"

Users/Sectors	KEYPAD (sector 1, 2, 3, 4)	KEYPAD (sector 1)	KEYPAD (sector 2)
USER 1 (sector 1, 2, 3, 4)	sectors choice	sectors choice	sectors choice
USER 2 (sector 1)	display sector 1	display sector 1	unauthorised
USER 3 (sector 2)	display sector 2	unauthorised	display sector 2