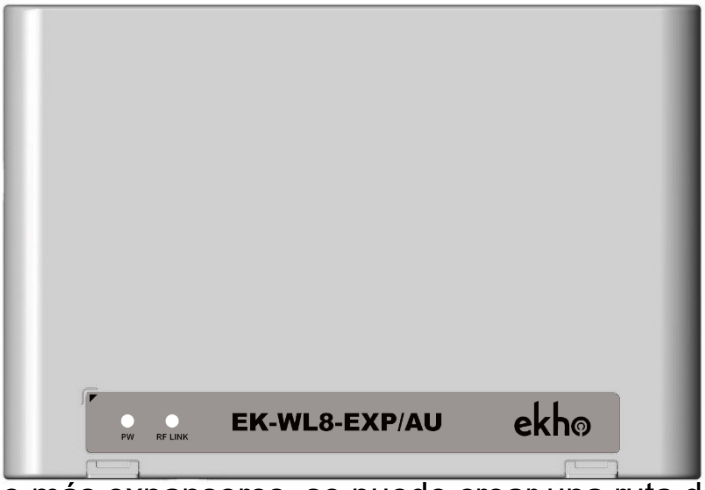
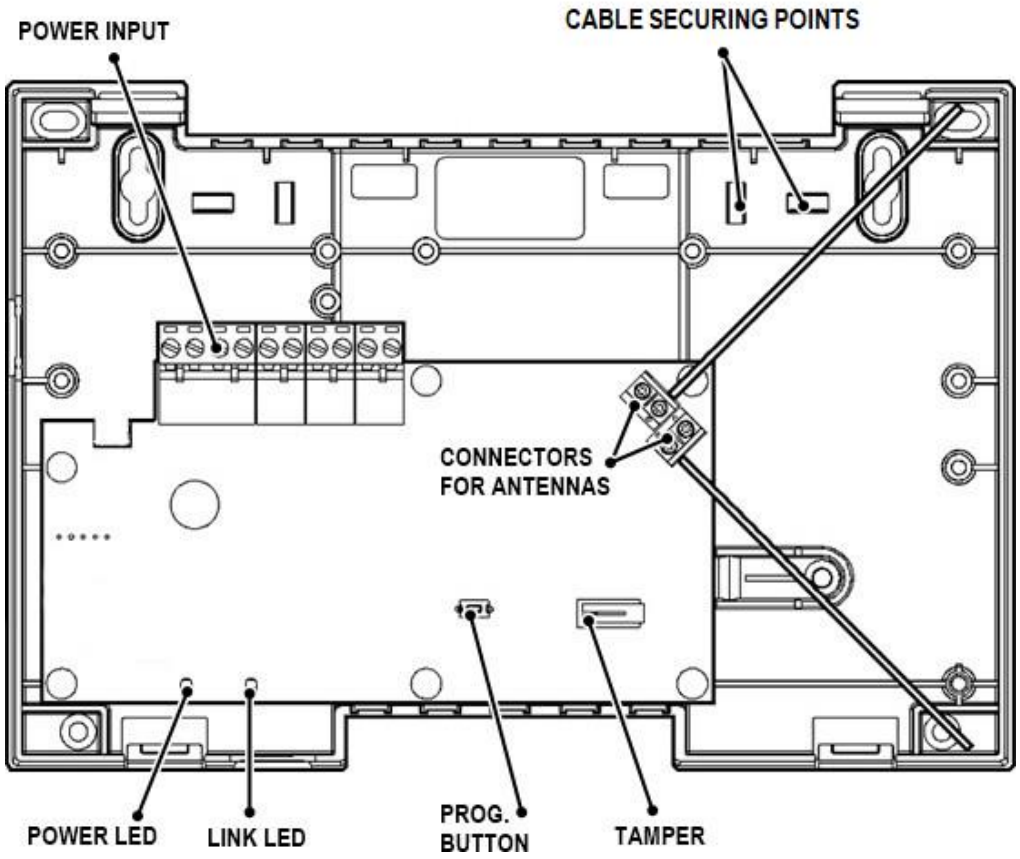
DESCRIPCIÓN GENERAL



EK-WL8-EXP es un módulo expansor que se utiliza para transmitir señales y ampliar una red inalámbrica. El expansor recibe señales de sensores/módulos cercanos y las transmite al módulo traductor/receptor, que a continuación actualiza el panel de control principal con los eventos del sistema. La señal también se puede transmitir a través de varios expansores. Cuando se utilizan dos o más expansores, se puede crear una ruta de comunicación de respaldo al módulo traductor. El dispositivo se suministra con un kit de montaje (hay disponible una parte trasera opcional EK-BOX-01). El producto cumple con los requisitos de AS ISO 7240.18 y AS ISO

GENERAL OVERVIEW



FEATURES

- Bi-directional wireless communication
- Intelligent algorithms
- Tamper switch
- Automatic frequency and amplitude adjustment

TECHNICAL SPECIFICATION

Communication range to a device	1200 m (open space)
Communication range to another expander	2000 m (open space)
Radio frequency	918-926 MHz
Modulation type	GFSK
Operating frequency channels	6
Radiated power	Not more than 25 mW
Receiver category (EN300-220-1)	1.5
Power supply voltage range	from 11Vdc to 28Vdc
AC or DC input voltage range	from 11Vdc to 28Vdc
Max power consumption	80 mA
Max number of expanders in one system	126 max*
Dimensions	210x145x40 mm
Weight	320 g
Max tolerated humidity	93% RH
Operating temperature range	from –10 °C to +55 °C

Dependant on system capacity

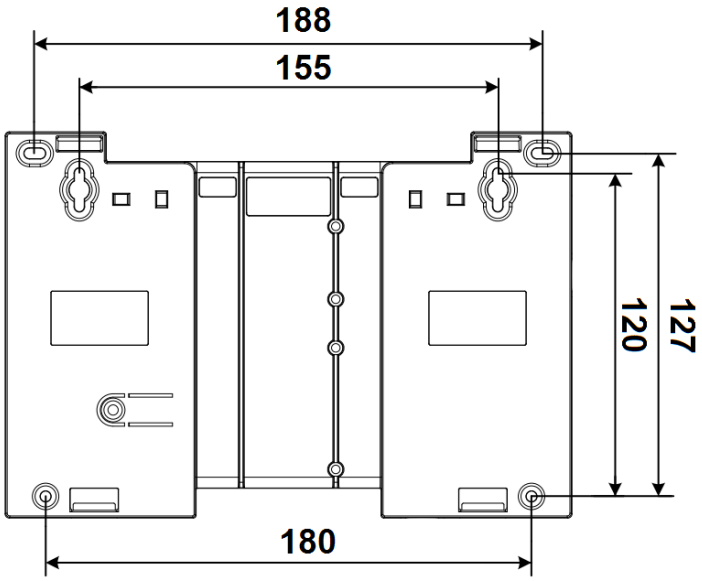
NOTE Check the latest version of the product specification document STFV.425551.030-E-PS for further data, obtainable from the manufacturer.

PROGRAMMING

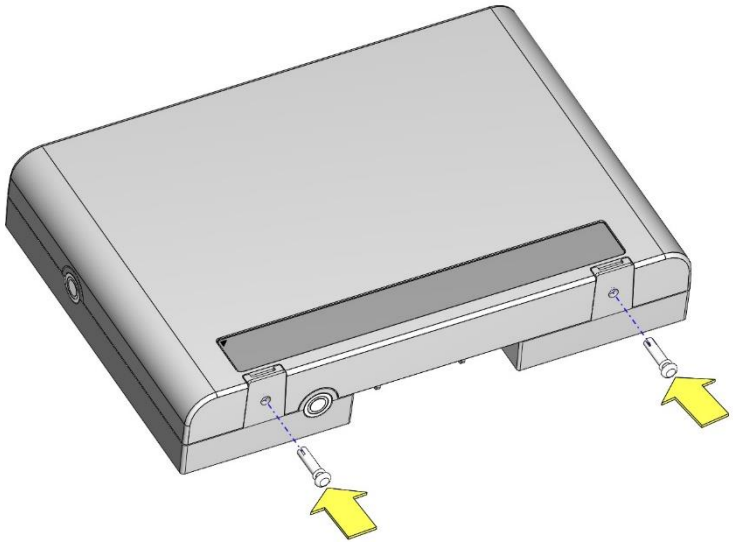
El botón «Prog.» del módulo expansor se utiliza para inicializar el expansor en el sistema. Consulte el manual del receptor para obtener instrucciones completas sobre cómo añadir un expansor al sistema. El expansor también se puede inicializar utilizando el software «Ekho Configuration».

INSTALLATION

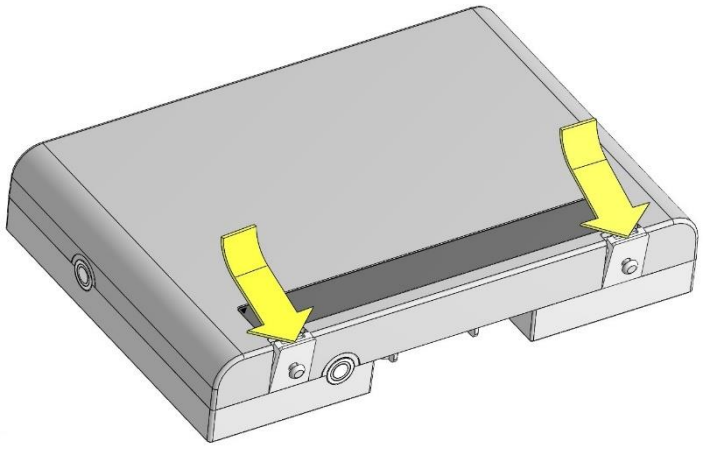
Install the expander module using screws. It is recommended to install the device at least 2 meters from the ground.
Ideally, the device should be installed at a certain distance from metallic objects, doors, and power lines, as they can cause the communication distance to drop. It is also important to avoid installing the device near electronics and computer equipment in order to protect them from potential electromagnetic interference.



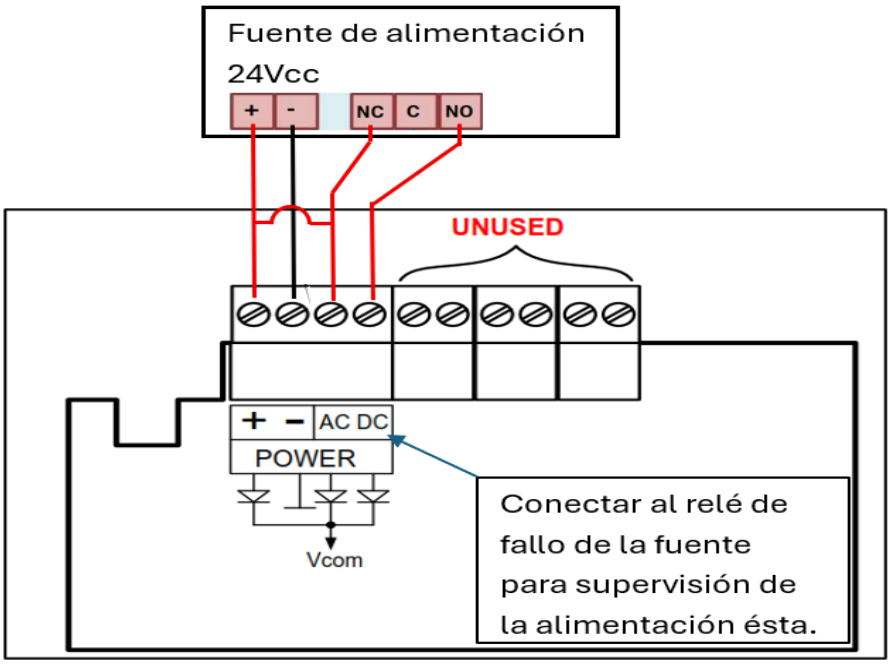
To secure the cover, you should insert the two rivets into the holes.



To open the cover, remove the two rivets by gently pulling on the two cover clips.



CONEXIONES



NOTE Other terminal blocks that are not described (marked "UNUSED") do not affect the operation of expander and are not used.

POWER

El expansor se alimenta mediante una fuente de alimentación externa. Utilice cualquier fuente de alimentación de 12 V o 24 V y conéctela a las entradas +/- del dispositivo.

ATENCION La fuente de alimentación debe tener un límite de corriente de salida de 8 A y cumplir los requisitos de la norma AS ISO 7240.4. Las entradas de CA y CC se utilizan para supervisar el estado de la fuente de alimentación externa (esta opción debe estar habilitada en EK-WL8-TRH menu[1]).

El expansor mide los niveles de tensión entre «-» y cada una de las entradas CA/CC; se generará un evento de fallo si la tensión cae por debajo de 10,5 V. Estas entradas se pueden conectar directamente a las salidas de colector abierto de la fuente de alimentación. En otros casos, será necesario suministrar alimentación a estas entradas a través de un relé de fallo normalmente cerrado en la fuente de alimentación. La supervisión de las entradas CA y CC se puede desactivar a través del menú del traductor.

[1] Main and Backup power monitor modes should be set "ON"

Expander power consumption:

Power supply	Voltage, Vdc	Current consumption, mA
External power supply	12	65
	24	35

INDICATION AND TESTING

The device has an LED which indicates its state according to the following:

LED	Color	State of the device
PW	Green	Normal state
	Yellow	Main or backup power supply fault
Link	Green	Normal state
	Yellow	No communication with the translator or other expanders

Si el dispositivo se enciende con la cubierta abierta, se activará el «modo de evaluación de la calidad de la conexión». La intensidad de la conexión se indica con el LED «Link» durante 15 minutos de acuerdo con lo siguiente:

Excellent (score 5) - two green flashes
Good (score 4) - one green flash
Bad (score 3) - one yellow flash
No connection (score 2) - two yellow flashes

NOTE

You can check the RF quality in the installed position in two ways: from the translator's menu or from the Ekho Configuration software.

By using the "Maintenance/Device/Control" option within the translator menu, it is possible to turn the "RF link Quality" mode on or off. The expander will automatically exit this mode after 15 minutes.

ANALOG DATA

The expander provides the translator module with analog data regarding the air temperature and RF link quality. This information can be viewed in the “Ekho Configuration” software.
Please refer to the software manual for full instructions on how to use the Ekho Configuration software for system maintenance.

WARRANTY

All expanders are covered by a 3-year limited warranty. The warranty is voided by mechanical or electrical damage caused by incorrect handling or usage. The expander must be returned via an authorized supplier for repair or replacement along with full information on the identified problem.

WARNINGS & LIMITATIONS

Devices use high quality electronic components and plastic materials that are highly resistant to environmental deterioration. However, after 10 years continuous operation it is advisable to replace them to reduce the risk of reduced performance caused by external factors. Ensure the devices 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.

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