



# AL-IME2-EXP "Expander" Module

## Installation Instructions

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(Note: Technical Service is for security professionals only)  
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WI2156 09/15

### OVERVIEW

The Trilogix Networkx™ **AL-IME2-EXP Expander** extends the coverage area of an **AL-IME2** series Gateways, allowing control of up to its rated maximum of 63 Networkx locks per Gateway. Installation is simple, as the Expander only requires a connection to 12VDC power.

Used in place of additional Gateways, **AL-IME2-EXP** Expanders are useful when a Gateway does not provide sufficient signal strength to a particular area and therefore is unable to communicate with a wireless lock or group of wireless locks. **AL-IME2-EXP** Expanders are cost-effective, easier to wire than conventional Gateways, and feature a simplified 'Plug and Play' setup where the Networkx system automatically identifies all newly powered Expanders and quickly determines the best wireless signal pathways. Up to 7 Expanders can be added to one **AL-IME2** series Gateway.

#### Version 2

The **AL-IME2-EXP** "version 2" Expanders (notice the "2" in the model name) are the next generation of Networkx wireless devices. Because **AL-IME2-EXP** Expanders *only* work with **AL-IME2** version 2 Gateways, an **AL-IME2** version 2 Gateway must be installed and operational in your system for **AL-IME2-EXP** Expanders to function (**AL-IME2-EXP** Expanders cannot communicate with older "non-version 2" Gateways).

**Note:** Although the version 2 **AL-IME2** Gateways and **AL-IME2-EXP** Expanders CAN be mixed into an existing system that includes older "non-version 2" Gateways, *at least one new AL-IME2 Gateway must be up and running before an AL-IME2-EXP Expander will function.*

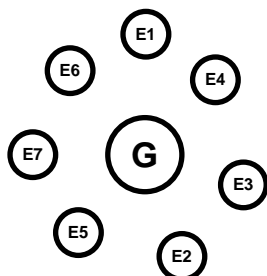
**Important:** **DL-Windows version 5.3.2** or later is required to support version 2 Gateways and Expanders.

The **AL-IME2-EXP** Expander is compatible with Alarm Lock and Continental Access products. Refer to the documentation supplied with your software for integration details.

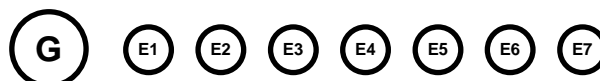
### INSTALLATION CONFIGURATIONS

**AL-IME2-EXP** Expanders can be added in any configuration. The following are examples:

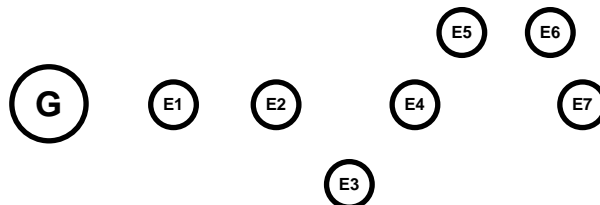
**"Star Pattern":** This configuration could be used to cover an entire building with a single **AL-IME2** Gateway located in the center, surrounded by up to 7 Expanders (maximum).



**"Daisy-Chain":** For covering long distances, such as a long hallway, a "daisy-chain" configuration connects several Expanders in series, with (a recommended) 100 foot maximum distance between the Gateway and the first (and between each subsequent) Expander. In this example, the signal is easily extended over 1000 feet in one direction, and provides coverage for door locks located along this range:



If a wireless lock along the above daisy-chain is unreachable, Expanders can be moved as required (in the example below, Expanders **E3**, **E5** and **E6** were relocated to allow the wireless signal to reach previously inaccessible locks).



#### TIP

The **AL-NSM Networkx Signal Meter** tool can help you perform a site survey test of the premises to find the optimum location for Gateways relative to Networkx locks; as well as determine the optimum number of Gateways needed to cover the signal area of the locks you plan to install. See WI2092 or speak to your Alarm Lock sales representative for more information.



AL-NSM  
Signal Meter

#### Blue and White ID Cards

We strongly recommend that when installing any model Gateway, a **blue-colored "Gateway ID Card"** (OI357) be completed, and when installing the **AL-IME2-EXP** Expander, a **white-colored "Expander ID Card"** (OI388) be completed.

Gateways and Expanders are often installed in ceilings or other hidden places, and their physical locations may easily be forgotten. These ID cards may prove to be very useful when replacing Gateways or Expanders, or when using DL-Windows to select a particular Gateway to discover locks, or whenever an installed Gateway or Expander needs to be physically located.

## ~ GATEWAY ID CARD ~

When installing the Gateway, please fill in all information on this card. This information will be used when adding Gateway devices to DL Windows. Keep this card in a safe place. Do not discard!

GATEWAY MODEL \_\_\_\_\_

MAC ADDRESS \_\_\_\_\_

INSTALLED LOCATION \_\_\_\_\_

O1357 2/09

Blue Gateway ID Card

## ~ EXPANDER ID CARD ~

When installing the Expander, please fill in all information on this card. This information will be used when adding Expander devices to DL Windows. Keep this card in a safe place. Do not discard!

EXPANDER SERIAL NUMBER \_\_\_\_\_

EXPANDER GROUP No. \_\_\_\_\_

EXPANDER LOCATION \_\_\_\_\_

O1388 07/15

White Expander ID Card

## MOUNTING LOCATION GUIDELINES

Give careful consideration to the installation locations when planning the layout of the system. We recommend selecting mounting locations in *elevated* areas, *centrally located* within the separate lock installations. With an **AL-IME2-EXP** Expander, select a convenient location that allows access to the (non-polarized) power wires running from the 12VDC power transformer.

Choose a location as high above ground level as practical (home attic installations are *not* recommended), keeping in mind that metal objects may adversely affect reception. It may be helpful to draw a layout of the system, identifying all proposed installation locations and the anticipated door locations. Also include notations indicating construction materials in use. Although wood and wallboard construction will have little effect upon signal strength at the lock, concrete or brick can reduce signal strength by up to 35%, while steel-reinforced concrete or metal lath and plaster can reduce transmitter strength as much as 90%. Do NOT mount close to electrical wiring or other metal obstructions such as pipes or conduits. Do NOT install in utility or computer closets as these locations will severely reduce signal strength.

## MOUNTING INSTRUCTIONS

The **AL-IME2-EXP** rear housing must be mounted "up" as shown on the page 5 template; i.e. when the front housing is attached, its engraved Networkx logo must be located at the lower right with the front housing positioned "up" in a conventional manner. (The unit contains internal antennas that must be positioned vertically). *Horizontal "flat" mounting of the enclosure is to be specifically avoided.* As stated previously, the **AL-IME2-EXP** Expander only requires connection to the 12VDC power transformer wires.

### Mount as follows:

1. Separate the rear housing from the cover: Remove the Bottom Screw as shown in Fig 1.



Fig. 1: Bottom Screw

2. Insert a small flat-head screwdriver into the slots at the bottom and twist while applying inward pressure (see Fig. 2; insert the screwdriver closer to the edges of the unit, as shown in the Fig. 2 "inset" image).

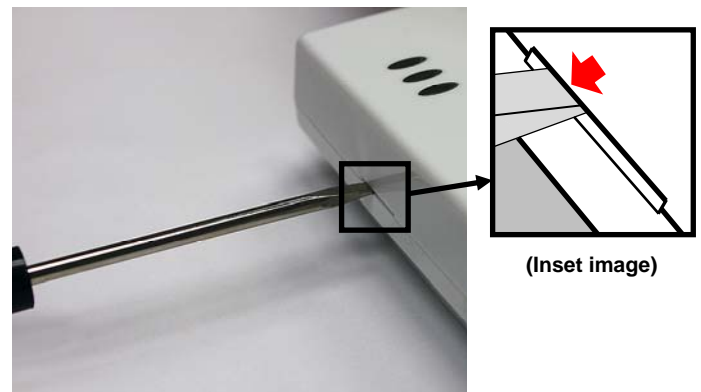


Fig. 2: To separate rear housing from cover  
(Inset: Insert flat-head screwdriver closer to the edges of the unit)

3. Using the rear housing as a mounting template, secure the unit to a wall or other flat surface using the hardware provided (see page 5 for printed template).

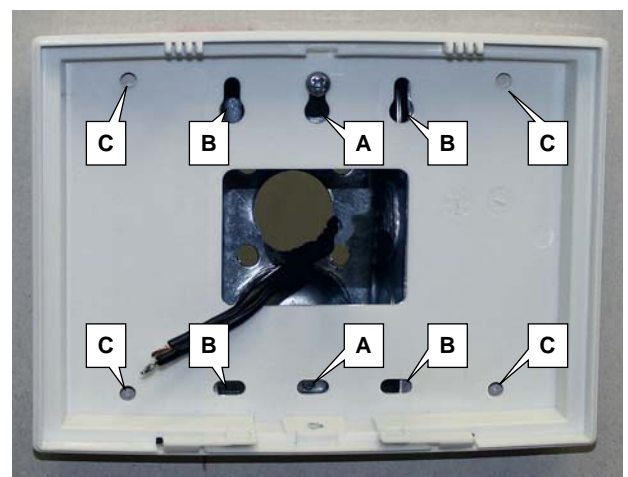


Fig. 2: Rear housing mounting holes for single-gang (A) and double-gang (B) electrical boxes, and four all-purpose holes

As shown in Fig. 3, the rear housing includes two mounting holes for single-gang (A) and four mounting holes for double-gang (B) electrical utility boxes, as well as four all-purpose holes (C) for mounting to drywall or other surfaces.

## FIRST TIME POWER UP

Connect the 12VDC power transformer wires (non-polarized). Upon initial power up, the green light flickers rapidly indicating the unit is ready for discovery by your Gateway.

Next, reset the Expander as follows:

### Reset the Expander

**IMPORTANT:** Before securing the Expander housing cover, ALWAYS reset the Expander memory, even if the Expander is new "out of the box" and/or has never been used previously.

*After initial power up, press and hold the "RESET" button (see below for location); continue to hold the button and the red light will turn on solid. Release the button and the green light will flicker rapidly.*

This "resetting" of the Expander clears all memory and ensures that any previous data is cleared from the unit.

### "Expander Group" Dials

Inside the Expander below the **RESET** button are 2 rotary dials (see Fig. 4). These dials are used to set the "Expander Group". All **AL-IME2** Gateways include an identical set of dials. Therefore, the dial values set on your Gateway **MUST** then match the dial values set on your **AL-IME2-EXP** Expanders. **IMPORTANT:** Each Gateway in your system **MUST** possess a unique Expander Group value. Failure to do so will prevent Expander discovery!

Expander Group values of "00" through "99" are valid selections.

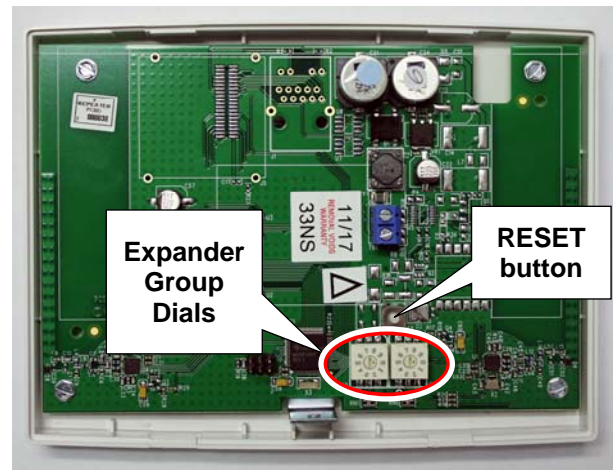


Fig. 4: "RESET" button and two "Expander Group dials"

**IMPORTANT:** The small "selection arrow" on each dial must be pointing directly to the desired Group value. In Fig. 5 (below), the Group value is set to "00". Use a small flat-head screwdriver to turn the dials and make the selections.

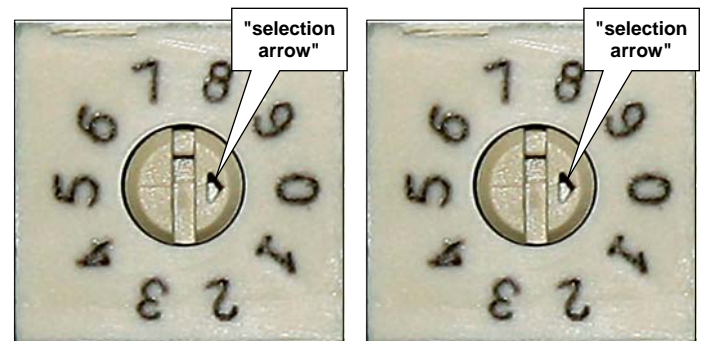


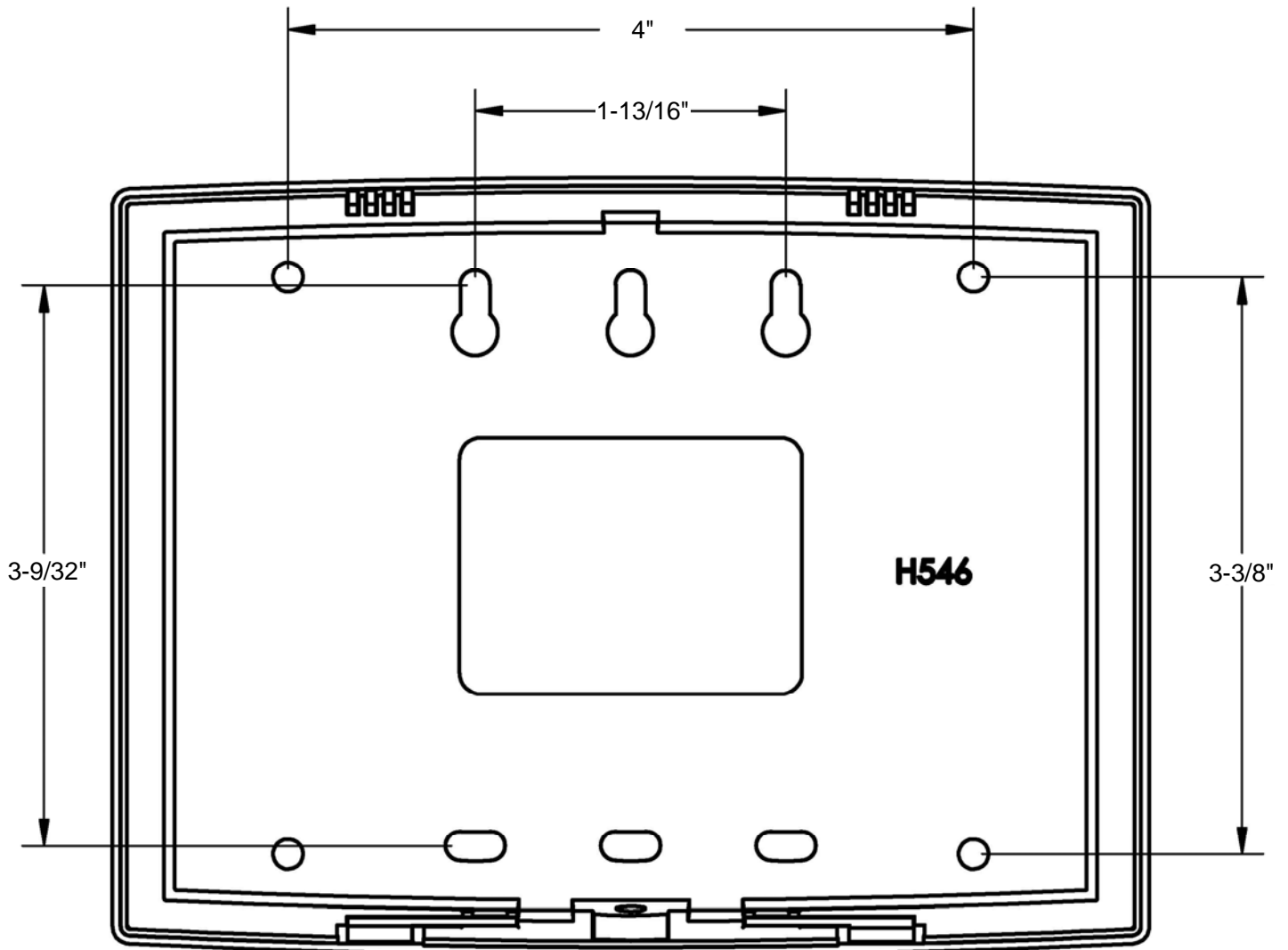
Fig. 5. Example: The above Expander Group dials are set to "00".

### Close the Housing Cover

Close the housing cover by first engaging the hooks at the top, then snapping the bottom together. Secure the cover with the Bottom Screw provided as shown in Fig. 1.

# NOTES

# AL-IME2-POE and AL-IME2-EXP Mounting Template



# NOTES

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# ALARM LOCK LIMITED WARRANTY

ALARM LOCK SYSTEMS, INC. (ALARM LOCK) warrants its products to be free from manufacturing defects in materials and workmanship for twenty four months following the date of manufacture. ALARM LOCK will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges, environmental wear and tear, normal maintenance expenses, or shipping and freight expenses required to return products to ALARM LOCK. Additionally, this warranty shall not cover scratches, abrasions or deterioration due to the use of paints, solvents or other chemicals.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE IS NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. ADDITIONALLY, THIS WARRANTY IS IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF ALARM LOCK.

Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period.

IN NO CASE SHALL ALARM LOCK BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

In case of defect, contact the security professional who installed and maintains your security system. In order to exercise the warranty, the product must be returned by the security professional, shipping costs prepaid and insured to ALARM LOCK. After repair or replacement, ALARM LOCK assumes the cost of returning products under warranty. ALARM LOCK shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial numbers have been altered, defaced or removed. ALARM LOCK will not be responsible for any dismantling, reassembly or reinstallation charges, environmental wear and tear, normal maintenance expenses, or shipping and freight expenses required to return products to ALARM LOCK. Additionally, this warranty shall not cover scratches, abrasions or deterioration due to the use of paints, solvents or other chemicals.

This warranty contains the entire warranty. It is the sole warranty and any prior agreements or representations, whether oral or written, are either merged herein or are expressly cancelled. ALARM LOCK neither assumes, nor authorizes any other person purporting to act on its behalf to modify, to change, or to assume for it, any other warranty or liability concerning its products.

In no event shall ALARM LOCK be liable for an amount in excess of ALARM LOCK's original selling price of the product, for any loss or damage, whether direct, indirect, incidental, consequential, or otherwise arising out of any failure of the product. Seller's warranty, as hereinabove set forth, shall not be enlarged, diminished or affected by and no obligation or liability shall arise or grow out of Seller's rendering of technical advice or service in connection with Buyer's order of the goods furnished hereunder.

ALARM LOCK RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

**Warning:** Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. ALARM LOCK does not represent that the product/system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and calling police or fire department, in order to mitigate the possibilities of harm and/or damage.

ALARM LOCK is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to ALARM LOCK's original selling price of the product regardless of the cause of such loss or damage.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.