



ARITECH ATS1125-B Keypad and Touchscreen Instruction Manual

[Home](#) » [aritech](#) » ARITECH ATS1125-B Keypad and Touchscreen Instruction Manual 



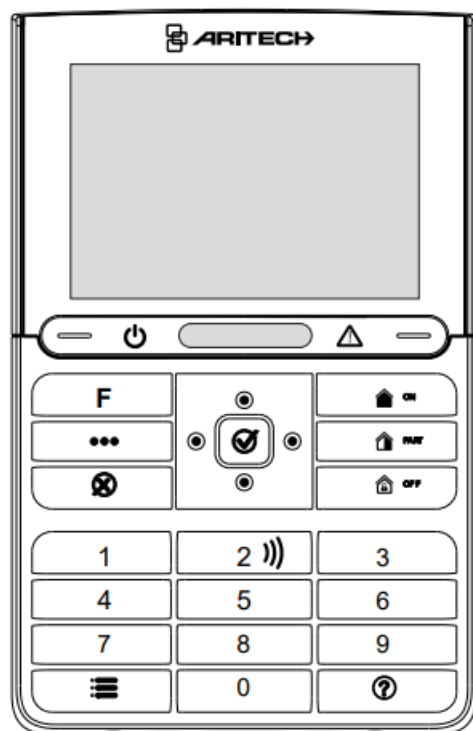
ATS1125 Keypad Installation Sheet

Contents

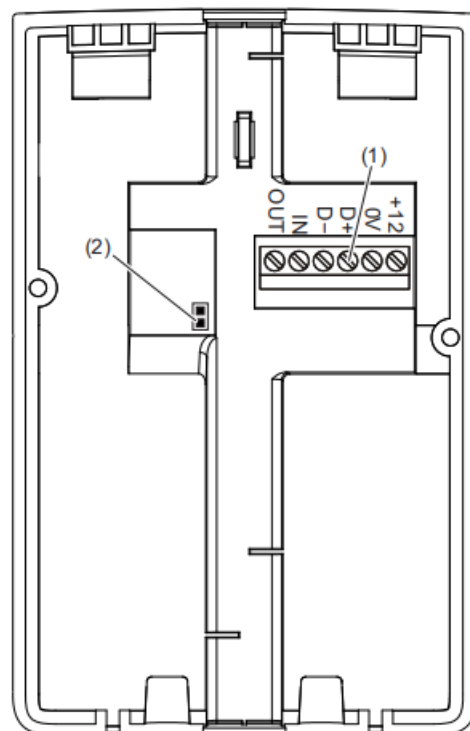
- [1 ATS1125-B Keypad and Touchscreen](#)
- [2 Description](#)
- [3 Mounting the keypad](#)
- [4 Connections](#)
- [5 LED indications](#)
- [6 Operating features](#)
- [7 Programming options](#)
- [8 Specifications](#)
- [9 Regulatory information](#)
- [10 Documents / Resources](#)
 - [10.1 References](#)

ATS1125-B Keypad and Touchscreen

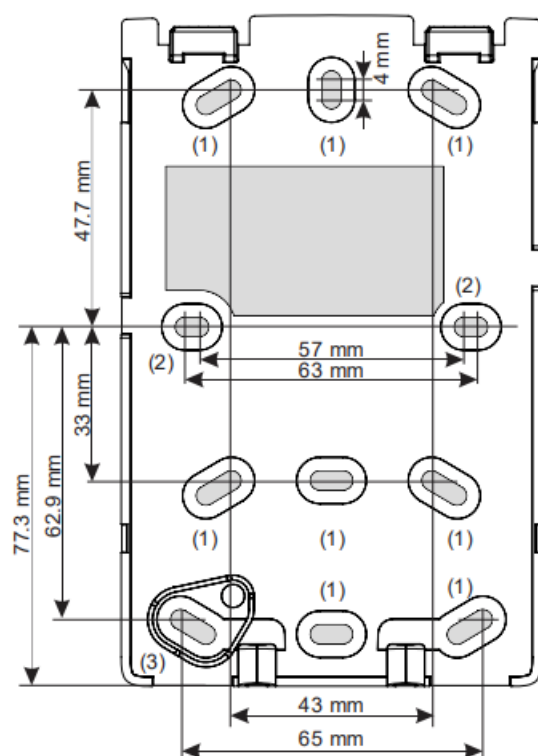
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2



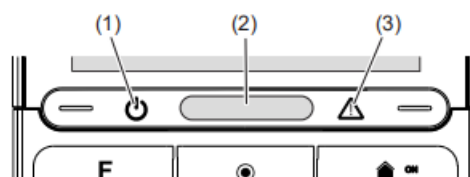
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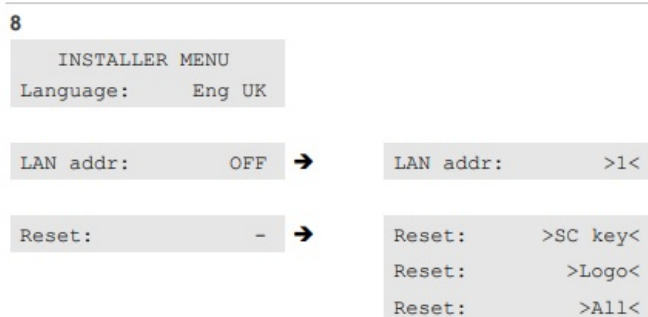
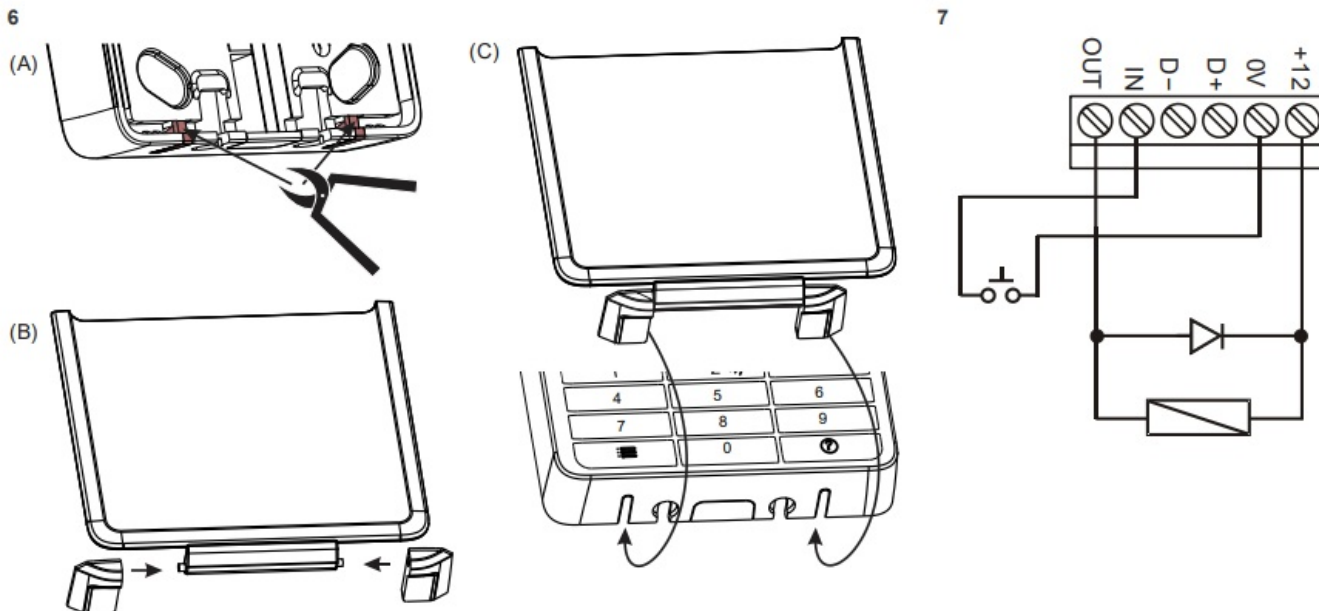


4



5





Installation Sheet

Description

ATS1125 Keypad is a remote arming station (RAS) with built-in Mifare card reader for Axon x700 control panels. The keypad bracket fits the most common 60-mm junction wall boxes, such as U40 or 502E.

Caution: Read this manual before any operations with the equipment, especially before installation and first power up.

Mounting the keypad

WARNING: Electrocution hazard. To avoid personal injury or death from electrocution, remove all sources of power and allow stored energy to discharge before installing or removing equipment.

Cautions

- Due to safety reasons it is not allowed to install the product in any location outside the building where the corresponding control panel is placed (unless a proper RS485 line insulation module is used). Network to network insulation is required as no proper separation might interact with alarm system signal integrity and cause unexpected results.
- Any overhead lines are prohibited.
- Due to safety reasons it is not allowed to wall-mount the device higher than 2 meters from the floor, and in reach of children.

- It is prohibited to perform any installation operations by non-instructed person, in EN 62386 meaning.

Two lock screws hold the mounting bracket at the rear (see Figure 4). Remove the mounting bracket before installation. To do so, unscrew the lock screws, then slide the mounting bracket down and pull its bottom away from the body of the keypad.

Hinged cover

To mount the hinged keypad cover, follow the steps indicated in Figure 6.

A Cut out the removable elements on the bottom of the housing.

B Insert the cover into the provided hinges.

C Slide the hinges with the cover into the housing slots.

To install the keypad:

1. Mark the hole positions on the mounting surface using the mounting bracket, and drill the holes.

Caution: Ensure that the keypad is installed on a flat surface to prevent interference with the tamper switch.

2. Attach the bracket to mounting surface using provided screws, including pry-off tamper screw, which fixes the pry-off tamper element (Figure 3, item 3).

3. Connect cable to the keypad terminal. See also “Connections” on page 3.

4. Set the bus termination jumper (see Figure 2, item 2), if required. Terminate the bus cabling.

WARNING: All power should be turned off to the control panel before wiring the RAS.

5. Place the keypad onto the bracket, top first, and gently snap in place. Tighten the locking screws at the bracket until the keypad is firm. Do not overtighten.

Figure 2: Rear view

1. Connection terminal
2. Termination jumper

Figure 3: Wall mounting bracket

1. Mounting points
2. Mounting points compatible with standard 60-mm junction box
3. Pry-off tamper mounting point

Tamper switch

The tamper switch must be inactive (closed) for the system to work correctly. The tamper switch is closed by mounting the keypad onto the mounting bracket. In operation, the LCD display will show “RAS Tamper” when active (open).

Data bus termination

To terminate the bus, insert the termination jumper (Figure 2, item 2), if needed. There must be no more than two terminationswitches or links set to On for any bus. Refer to the control panel installation guide for details about the use of termination switches or links.

Connections

See Figure 7.

- +12 V, 0 V: The keypad can be powered using the bus “+” and “–” power from the control panel, if the distance between the keypad and the control panel does not exceed 100 m. Otherwise the keypad can be powered by AUX PWR from a DGP, or by an auxiliary power supply.
See “Specifications” on page 4 for the required power supply specifications.
- D+/D–: D+ is the data positive connection and D– is the data negative connection of the data bus.
The keypad is connected to the ATS panel via the RS485 data bus, up to 1.5 km from the control panel. It is recommended to use two-pair twisted, shielded data cable (WCAT 52/54). D+/D– should be connected by one twisted wire pair. The shield of any bus cable must be connected to system ground at one end only. The keypad does not provide an earth connection for this purpose. If the bus is daisy-chained to the keypad, ensure that the shield of the cable is jointed to provide continuity of data cable shield. Isolate the wires and the shield of the cable correctly to prevent any short circuit on the keypad.
- IN: A request to exit button (normally open, momentary push-button switch) can be connected across “IN” and “0V” terminals. When pressed, this button controls the request to exit function.
- OUT: Open collector output. For maximum allowed current, see “Specifications” on page 4. Refer to the control panel programming manual for details.

LED indications



Figure 5

1. Power. Green: The Power LED is on when the control panel is powered by the AC supply.
2. Status:
 - Red On: Areas set
 - Red flashing: Alarm condition active
 - Orange On: Part set
 - Orange flashing: System fault active / General alert (EN 50131)
 - Green On: System is ready to set
 - Green flashing: Entry / exit time active
 - Blue flash: Valid card presented / Access granted
 - Off: Not ready to set / Armed display active
3. Fault. Yellow: The Fault LED illuminates to indicate detection of a system fault.

Operating features

Keypad shortcuts

Use keypad shortcuts to adjust the following keypad settings (press these buttons simultaneously).

- LCD brightness: Menu  + Up or Down
- Keypad backlight brightness: F + Up or Down
- Keypad nightlight brightness: F + Left or Right
- Buzzer volume: Cancel  + Up or Down

Note: In certain cases, the buzzer cannot be muted, as this is not allowed for compliance reasons.

Key backlight and nightlight

The default key backlight and nightlight settings are as follows:

- Key backlight on (bright) for approximately 240 s following a key press.
- Nightlight on (dim).

These functions can be changed from the keypad menu.

Secure channel

This device can communicate with the panel using an encrypted connection. When the secure connection to a control panel is established, the device will be locked in this system, so that it will work only via secure channel and only with this panel. Any other communication modes will be disabled.

This device will not work if you reconnect it to another system, replacing an equivalent device.


Removing the device from the panel configuration will make impossible reconnecting this device to this system.

This functionality protects the system against cyberattacks.

To unlock the device and use it in any system, reset the secure channel key or change the device address. See “Programming options” below for more details.



Programming options

ATS1125 provides a local installer menu, through which certain options can be set.

The installer menu is accessible when powering the keypad up with the keypad tamper switch open. To enter the menu, press  Menu when the welcome screen is shown.

Note that the menu opens automatically after the welcome screen if the keypad address is not set.

Use the following buttons to navigate the keypad menu:

- Up or Down: Select a parameter
- Left or Right: Change the parameter value
- Enter :  Confirm the parameter change
- Cancel :  Exit menu

See Programming Map in Figure 8.

Language

Change the Installer menu language.

LAN addr

Set the keypad bus address. See Axon x700 Control Panel Installation and Programming Manual for details on the bus addressing.

Note: Changing keypad address will reset the secure channel key.

Reset

Use the menu to reset one of the following:

- SC key: Reset the secure channel key stored in the keypad.
- Logo: Load the default keypad logo.

Note: The keypad logo may be changed using the Downloader configuration software.

- All: Reset all keypad settings, including LCD brightness, keypad backlight, buzzer volume, logo and secure

channel key to the default ones. The keypad address is set to Off.

Troubleshooting

Secure communication is only secure between two devices when both devices agree on proper secure keys. If these are not aligned, the communication fails, for example, the LCD keypad shows System Fault, and it cannot be polled by the control panel. This requires a reset on one or on both devices.

See Axon x700 Control Panel Installation and Programming Manual for more information.

Specifications

Supply voltage	8.7 to 15.1 VDC; 12.0 VDC nom.
Maximum operating current	115 mA at 12.0 VDC 110 mA at 13.7 VDC
Normal operating current	25 mA at 12.0 VDC 22 mA at 13.7 VDC
Input (IN terminal)	Normally open (NO) contact. Max. appearing voltage 13.9 VDC
Open collector output (OUT terminal)	13.7 V max. at 50 mA max.
Wireless operating frequency	Mifare 13.560 ±0.007 MHz
RF power output	Less than 1 mW
Code combinations [1]: 5 digits 10 digits	100 000 10 000 000 000
ACE type (tamper protection)	B
Supported cards	Unsecure mode: Mifare Unique ID (Classic 1K/4K, Desfire EV1, EV2, EV3) Secure mode: Mifare Desfire EV1, EV2, EV3
Dimensions (W x H x D)	97 x 155 x 25 mm
Weight	230 g
Operating temperature	-10 to +55°C
IP rating	IP30
Maximum relative humidity	95% noncondensing
Security rating (EN62368)	ES1, PS2, TS1

1. Notes

- When Duress functionality is enabled, 6 digits codes are required
- There are no invalid code combinations

Notification

When printing or adding a customer logo on the ATS1125 keypad or its lens, take care to make use of RoHS compliant materials and printing processes only.

Regulatory information

Manufacturer

Carrier Fire & Security B.V.
Kelvinstraat 7, 6003 DH Weert, Netherlands

Product warnings and disclaimers

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Certification



EN 50131-1 System requirements
EN 50131-3 Control and indicating equipment
Security Grade 3, Environmental class II
Tested and certified by Kiwa Nederland B.V.

Carrier Fire & Security hereby declares that this device is in compliance with the applicable requirements and provisions of all applicable rules and regulations, including but not limited to the Directive 2014/53/EU. For more information see:

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REACH

Product may contain substances that are also Candidate List substances in a concentration above 0.1% w/w, per the most recently published Candidate List found at ECHA Web site.

Safe use information can be found at <https://firesecurityproducts.com/en/content/intrusi> on-intro



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For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: recyclethis.info

Product documentation

Please consult the following web link to retrieve the electronic version of the product documentation.
This link will guide you to the EMEA regional contact page. On this page you can request your login to the secured web portal where all manuals are stored.

<https://firesecurityproducts.com/en/contact>




Contact information

www.firesecurityproducts.com or www.aritech.com



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Documents / Resources

	<p>ARITECH ATS1125-B Keypad and Touchscreen [pdf] Instruction Manual ATS1125-B Keypad and Touchscreen, ATS1125-B, Keypad and Touchscreen, Touchscreen</p>
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