



INSTALLATION AND PROGRAMMING GUIDE



FAST-ATM1.2

GET STARTED

The FAST-ATM1.2 connects to XR Series and XT75 Control Panels to provide controlled disconnection of network, USB, and power connections in ATM installations. The FAST-ATM1.2 has two boards, a zone expansion module and relay expansion module. The relay expansion module includes four outputs for the network, USB, and PC Core kill switches, along with an additional output for other system requirements. The zone expansion module includes eight non-powered expansion zones. The FAST-ATM1.2 connects to the panel LX-Bus, with two sets of two rotary switches to set addresses.

What's Included

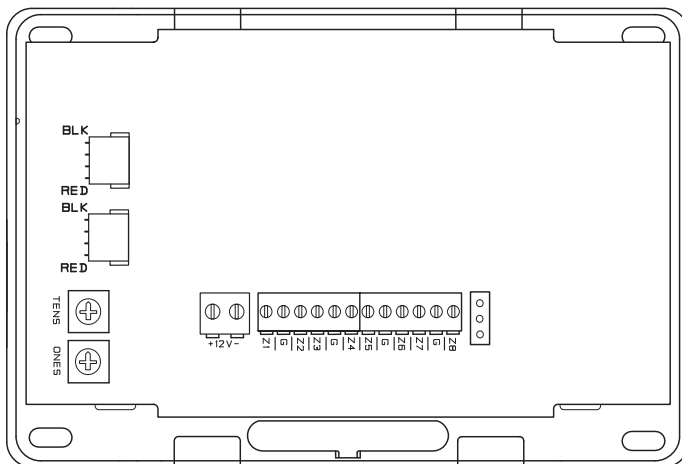
- ▶ FAST-ATM1.2 Unit
- ▶ Six magnets for mounting
- ▶ 4-wire harness

Procedure

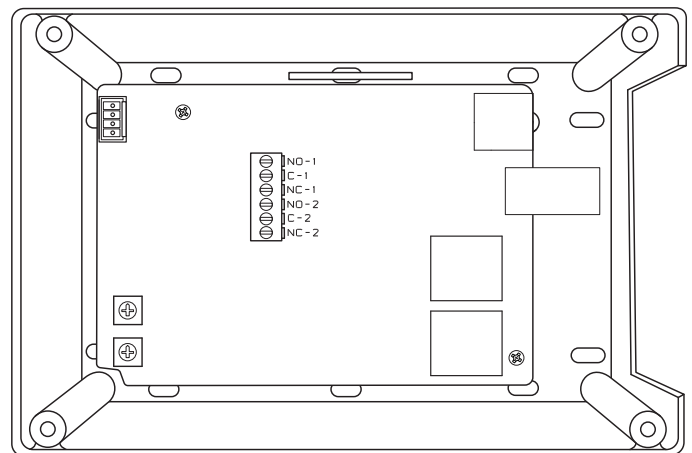
To install a FAST-ATM1.2, this guide walks you through these required steps:

1. Program the panel.
2. Wire the Relay Expansion Module.
3. Wire the Zone Expansion Module.
4. Connect the Modules.
5. Connect the Zone Expansion Module to the LX-Bus.
6. Assemble and Mount the FAST-ATM1.2.

Layout



Zone Expansion Module



Relay Expansion Module

Figure 1: FAST-ATM1.2 PCB Layout

PROGRAM THE PANEL

To access the Programmer menu, reset the panel, press **Keypad** in the carousel menu, enter **6653** (PROG), then press **CMD**.

After completing each of the following steps, press **CMD** to advance to the next option. Refer to the panel programming guide as needed.

Program the Relay Expansion Module

OUTPUT OPTIONS

OUTPUT OPTIONS

Advance to Output Options, then press a select area to enter the menu. Configure the outputs as necessary.

For XR150, select from output numbers 500-599. For XR550, select from output numbers 500-999. For XT75, select from output numbers 500-549 for wired or wireless devices, or from 550-599 for only wireless devices.

Press **CMD** until you return to the Output Options screen.

Program the Zone Expansion Module

ZONE INFORMATION

ZONE INFORMATION

Advance to Zone Information, then press a select area to enter the menu. Configure the zones as necessary. Press **CMD** until you return to the Zone Information screen.



Note: The FAST-ATM1.2 can be programmed to any zone type, but it is advised to use a Supervisory or Auxillary zone for this device.

STOP

STOP

Continue to press **CMD**. At the STOP option, press any select key or area to save your programming and exit the Programmer function of the panel.

INSTALLATION

1 Wire the Relay Expansion Module

The relay expansion module is premounted in the back box of the enclosure. Refer to figure 2 when wiring the module. Connect wires as needed.

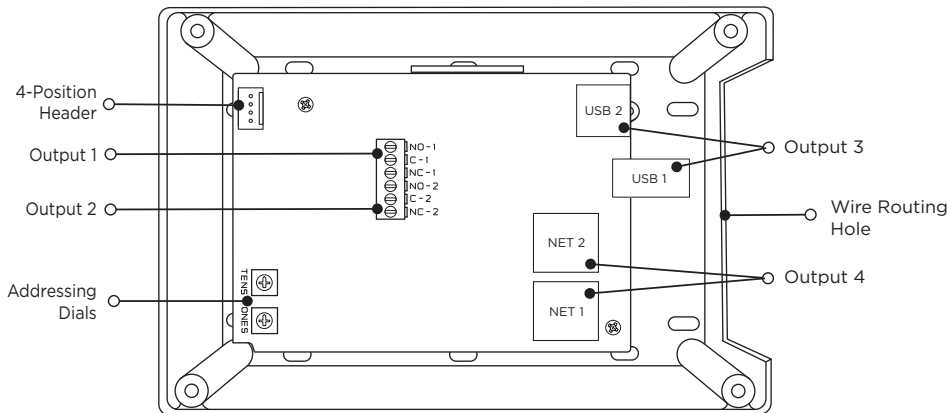


Figure 2: Relay Expansion Module Diagram

OUTPUT	DESCRIPTION
1	Auxiliary Output 1
2	Auxiliary Output 2
3	USB Device to Computer
4	Network Switch to Computer

Set the Relay Expansion Module Address

Set the relay expansion module to an address that is used by the panel to turn outputs on and off. For easy addressing, the relay expansion module contains two on-board rotary switches that you can set with a small screwdriver. The relay expansion module responds on four LX-Bus addresses.

The module uses two rotary switches (TENS and ONES) to set the module address. Set the switches to match the last two digits of the address. For example, for address 02 set the switches to TENS 0 and ONES 2. For more information, refer to Table 1.

SWITCH		XT75	XR150	XR550				
TENS	ONES	LX	LX500	LX500	LX600	LX700	LX800	LX900
0	0	500	500	500	600	700	800	900
0	1	501	501	501	601	701	801	901
0	2	502	502	502	602	702	802	902
0	3	503	503	503	603	703	803	903
0	4	504	504	504	604	704	804	904
0	5	505	505	505	605	705	805	905
0	6	506	506	506	606	706	806	906
...	...	...	...	...	...	...	...	...
4	7	547	547	547	647	747	847	947
4	8	548	548	548	648	748	848	948
4	9	549	549	549	649	749	849	949
...	...	...	...	...	...	...	...	...
9	8	598	598	598	698	798	898	998
9	9	599	599	599	699	799	899	999

Table 1: LX-Bus and Corresponding Zone Numbers

2 Wire the Zone Expansion Module

The zone expansion module is premounted in the main housing of the enclosure. Ensure that the module is set to LX according to the three-pin header. Observe polarity and wire zones 1-8. Install the included 1K Ohm EOL resistors.



Note: The 12V auxiliary power output is not intended to power the zone expansion module. Intended use is to supply auxiliary power to zones wired to the expander.

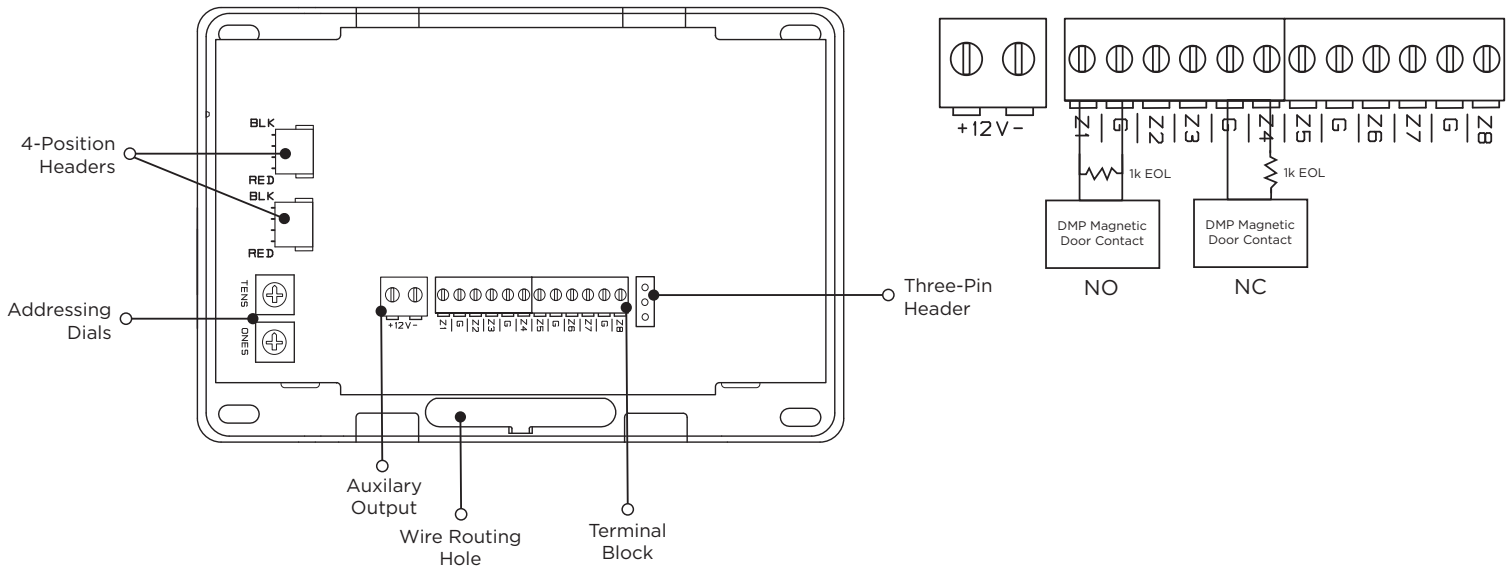


Figure 3: Zone Expansion Module Diagram

Set the Zone Expansion Module Address

Using the same method described in step 3, set the address for the zone expansion module. The zone expander also utilizes two rotary switches (TENS and ONES) to set the zone expander address. The module responds on eight LX-Bus addressed. Refer to Table 1 for this process as well.



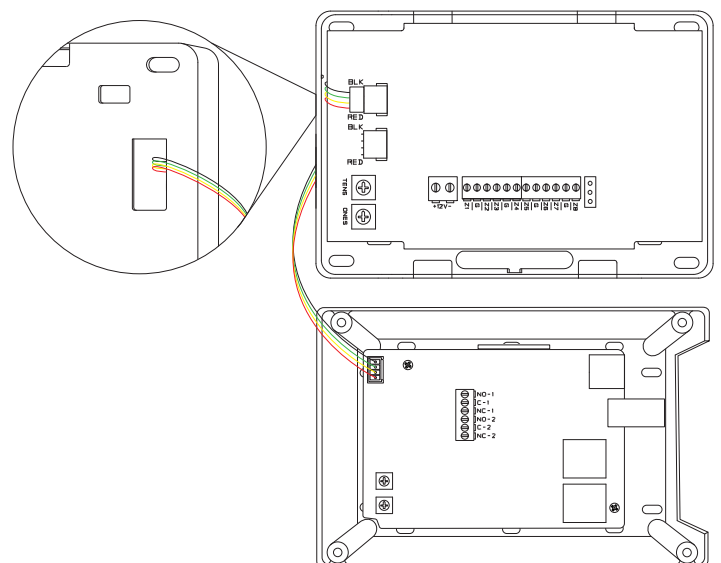
Note: Avoid overlapping the relay expansion module address and the zone expansion module. For example, if the relay expansion module is set to 02, the zone expansion module should be set to a different address outside the range of the relay expansion module.

3 Connect the Modules

The 4-wire harness also comes preinstalled in one of the two four position headers on the zone expansion module. The harness wraps around the side of the zone expansion module and routes through the hole on the back of the main housing. Take the end of the 4-wire harness and plug it into the relay expansion module, connecting the two modules.

Connect the Zone Expansion Module to the LX-Bus

Take the additional 4-wire harness provided and plug one end into the other four position header on the zone expansion module. Lead it through one of the wire routing holes in the main housing and plug it into the LX-Bus on your panel.



4 Assemble and Mount the FAST-ATM1.2

Assemble Housing

To assemble the housing, place the main housing with the zone expansion module on top of the backbox containing the relay expansion module, aligning the holes at the four corners. Use the provided screws and connect the two. Then, place the cover on top and click it into place.

Install the Magnets

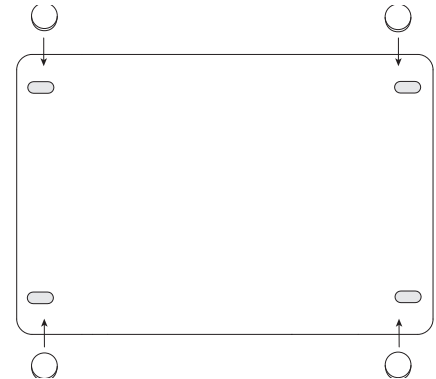
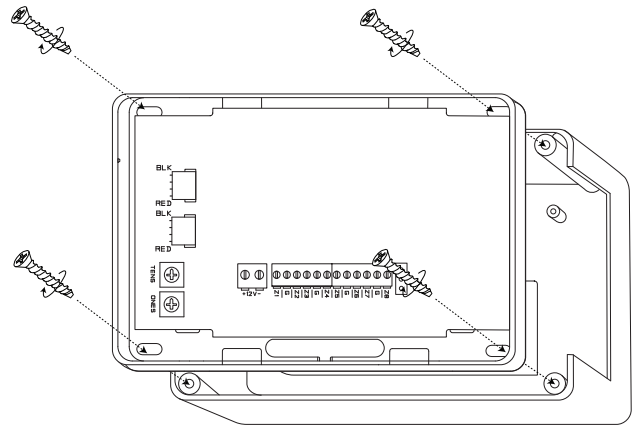
The FAST-ATM1.2 utilizes 6 magnets with adhesive backing to hold it in place inside of the ATM vault. Peel the paper liner from the back of a magnet to expose the adhesive. Carefully press the magnet in place on the back of the enclosure and hold firmly for 15-30 seconds. Repeat for the other five magnets.



Note: Magnets should be placed in indicated areas as to not interfere with relays onboard the device.

Mount in ATM

The magnets allow for easy mounting, simply press the FAST-ATM1.2 to the metal wall of the ATM vault and adjust any wires as needed.



REFERENCE

Wiring Specifications

DMP recommends using 18 or 22 AWG for all LX-Bus and Keypad Bus connections. The maximum wire distance between any module and the DMP Keypad Bus or LX-Bus circuit is 1,000 feet. To increase the wiring distance, install an auxiliary power supply, such as a DMP Model 505-12 or a DMP PS12-5. Maximum voltage drop between a panel or auxiliary power supply and any device is 2.0 VDC. If the voltage at any device is less than the required level, add an auxiliary power supply at the end of the circuit.

To maintain auxiliary power integrity when using 22-gauge wire on Keypad Bus circuits, do not exceed 500 feet. When using 18-gauge wire, do not exceed 1,000 feet. Maximum distance for any bus circuit is 2,500 feet regardless of wire gauge. Each 2,500 foot bus circuit supports a maximum of 40 LX-Bus devices. For additional information refer to the [LX-Bus/Keypad Bus Wiring Application Note \(LT-2031\)](#) and the [710 Bus Splitter/Repeater Module Installation Guide \(LT-0310\)](#).

Compatibility

- ▶ XT75 Panels
- ▶ XR Series Panels

Ordering Information

FAST-ATM1.2 Kill Switch Module

SPECIFICATIONS

Primary Power	12 VDC Nominal
Operating Current	
Zone Expansion Module	
Average	20 mA +1.6 mA per zone
Alarm	0 mA + 2 mA per zone
Relay Expansion Module	7 mA
	+28 mA per active relay
Housing Dimensions	5.50" W x 3.75" L x 1.00" H

FCC Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made by the user and not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

 **Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Industry Canada Information

This device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



Designed, engineered, and
manufactured in Springfield, MO
using U.S. and global components.

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