

Rhein Tech Laboratories, Inc.
360 Herndon Parkway
Suite 1400
Herndon, VA 20170
<http://www.rheintech.com>

Client: Alarm.com
Model: ADC-450L
Standards: FCC 15.249/IC RSS-210
IDs: YL6-143450L/91111A-143450L
Report #: 2014100

Appendix M: Manual

Please refer to the following pages.

Simon XT/XTi Module

INSTALLATION GUIDE

Introduction

This Module with firmware version 172 for Simon XT and XTi features integrated support for Alarm.com's emPower™ solution with built-in Z-Wave capabilities.

The module interfaces with the Simon XT and XTi panel boards, fits into a special compartment inside the panel, and is powered by the control panel and panel battery.

Contact Information

For additional information and support on Alarm.com products and services, please visit www.alarm.com/dealer or contact Alarm.com technical support at 1-866-834-0470.

Copyright © 2014 Alarm.com. All rights reserved.

Compatibility

The Alarm.com module with firmware version 172 is compatible with Simon XT and XTi panels.

Power Up

Reconnect panel battery and AC power. When the Alarm.com module is connected to a powered control panel, the LEDs at the bottom of the module will become active (see Table 1 on page 4). It may take a few moments after power up for the LEDs to become active. If the LEDs do not light up at all, ensure that the module has been fully inserted into the connector beneath it then perform a full power cycle by following these steps:

- 1) Disconnect the battery leads and unplug the panel power transformer from AC power.
- 2) Verify that the module is inserted securely and that the antenna is snapped-in completely.
- 3) Connect battery leads to the battery. On the XT, make sure to observe polarity (red to + and black to -) and to keep the wires outside of the tab holding them in place.
- 4) Plug the panel power transformer into the AC outlet.

It is important to plug the battery in before plugging in the transformer, otherwise the panel will issue a "System Low Battery" message regardless of the battery voltage level.

Troubleshooting LEDs

Status LEDs indicate network and module status.

LED L2 (yellow)

L2 flashes with every communication between the module and the panel. Normal pattern calls for a series of quick flashes every two seconds in Idle Mode or four seconds in PowerSave Mode.

It also occasionally flashes in patterns to indicate Z-Wave status. See the table below for a description of various possibilities.

Table 4: Z-wave LED status indicators

LED 2	LED 5	Device status or error	Description
4-blink		Add Mode (lasts 120 seconds or until a device is added)	In this mode you can add a device to the local Z-Wave network. Devices cannot be added to a network if they are already a part of a network
2-blink		Delete Mode (lasts 120 seconds or until a device is deleted)	In this mode you can delete a device from a Z-Wave network. A device can only be in one network at a time, and must receive a "delete" command before it can be learned into a new network
Solid		Successful add node/remove node/replication (lasts 60 seconds)	After receiving this signal leave all devices by the Alarm.com module for 1 minute. Locks must be left next to the module for 4 minutes
Solid with one blink		Add node attempt failed because node already in network (lasts 60 seconds)	Device you attempted to add to a network is already in a network, and must be "deleted" before it can join a new network
	2-blink	No other nodes are in the network (lasts until a device is added to the network)	No devices have been added that can be controlled by the Alarm.com module yet. See above for instructions on how to add devices
	5-blink	Learn mode error (lasts 60 seconds)	The device was not successfully added to the Z-Wave network.
	6-blink	No Home ID present (lasts until the module connects to Alarm.com and is configured)	When the Alarm.com module first connects to Alarm.com it is configured with a necessary unique network ID

Specifications

Compatible	Simon XT panels with software versions 0.0.H and later and Simon XTi
Power requirements	6V nominal
Standby current	30mA (10mA in Powersave Mode)
Peak current	1.7 A
Operating temperature	32 to 120°F (0 to 49°C)
Storage temperature	-30 to 140°F (-34 to 60°C)
Max. relative humidity	90% non-condensing
Dimensions	(H x W) 4 1/16 x 1 7/8 in.

Regulatory Information

Changes or modifications not expressly approved by Alarm.com can void the user's authority to operate the equipment.

This device complies with Industry Canada licence-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.

FCC ID: YL6-143450L, IC: 9111A-143450L