

SIEMENS



Access Control

ACC-Lite

Quick Start Manual

Fire Safety & Security Products

Siemens Building Technologies

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1 Introduction

The ACC-Lite is a smaller alternative to the ACC (Advanced Central Controller) used in SiPass integrated. The ACC-Lite is based on the Entro SR34i controller and exists in two variations:

- ACC-Lite: 8 Door controller with preloaded ACC Firmware.
- ACC-X – An Entro Controller upgraded with ACC Firmware. The X represents the number of doors supported.

The ACC-Lite can be used with either ACC or Entro devices. However ACC-X controllers can only be used with Entro devices, and are for migration sites.

This Quick Start Manual outlines how to install and configure an ACC-Lite controller to work with SiPass integrated.

1.1 Installation Overview

The following is a list of items required to complete this installation:

- ACC-Lite or Entro SR43 Controller
- 12-24V power source
- Ethernet cable
- ACC FLN or Entro Devices + wiring

Optional items:

- Modem + RS232 cable

The installation should proceed in this order:

1. Connect power to the ACC-Lite
2. Connect the FLN bus
3. Connect the Ethernet
4. Configure the network settings
5. Create the ACC-Lite in SiPass integrated

1.2 ACC-Lite Exterior

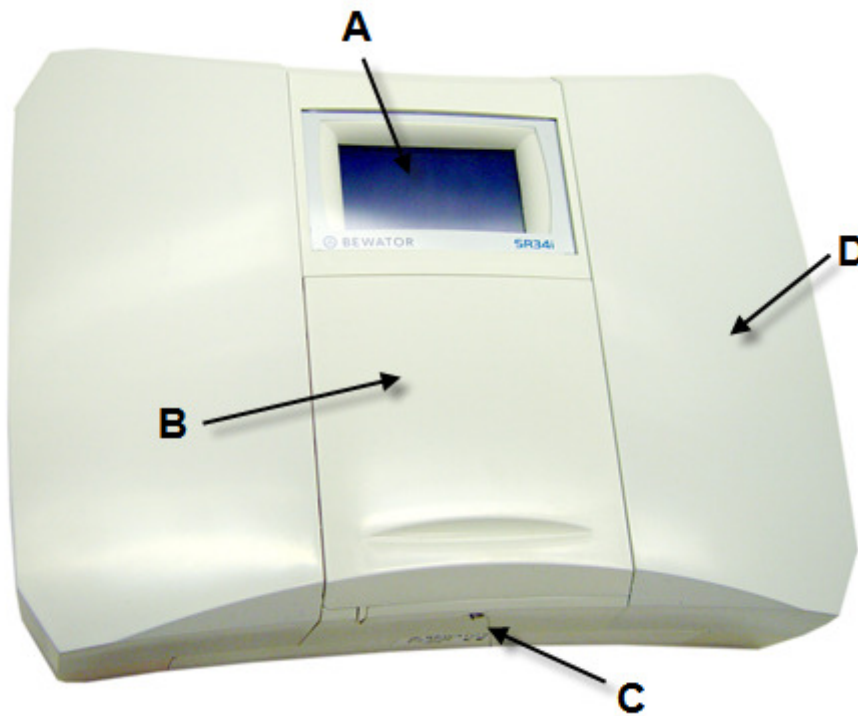


Fig. 1 ACC-Lite Exterior

ACC-Lite Exterior Items

Item	Description
A	LCD Panel. By default this displays basic information about the controller but it can also be used to set system configuration.
B	Keypad cover. When the ACC-Lite is unlocked and the doors opened, this cover slides downward exposing a numeric keypad that can be used to set basic options for the ACC-Lite.
C	Keylock. To open the ACC-Lite cover the correct key must be used to unlock and provide mechanical access.
D	Cover Door. The ACC-Lite provides two cover doors that can be used to gain access to the connectors that allow devices (eg: DC12 / D22 etc.) to be connected to an ACC-Lite.

1.3 ACC-Lite Interior

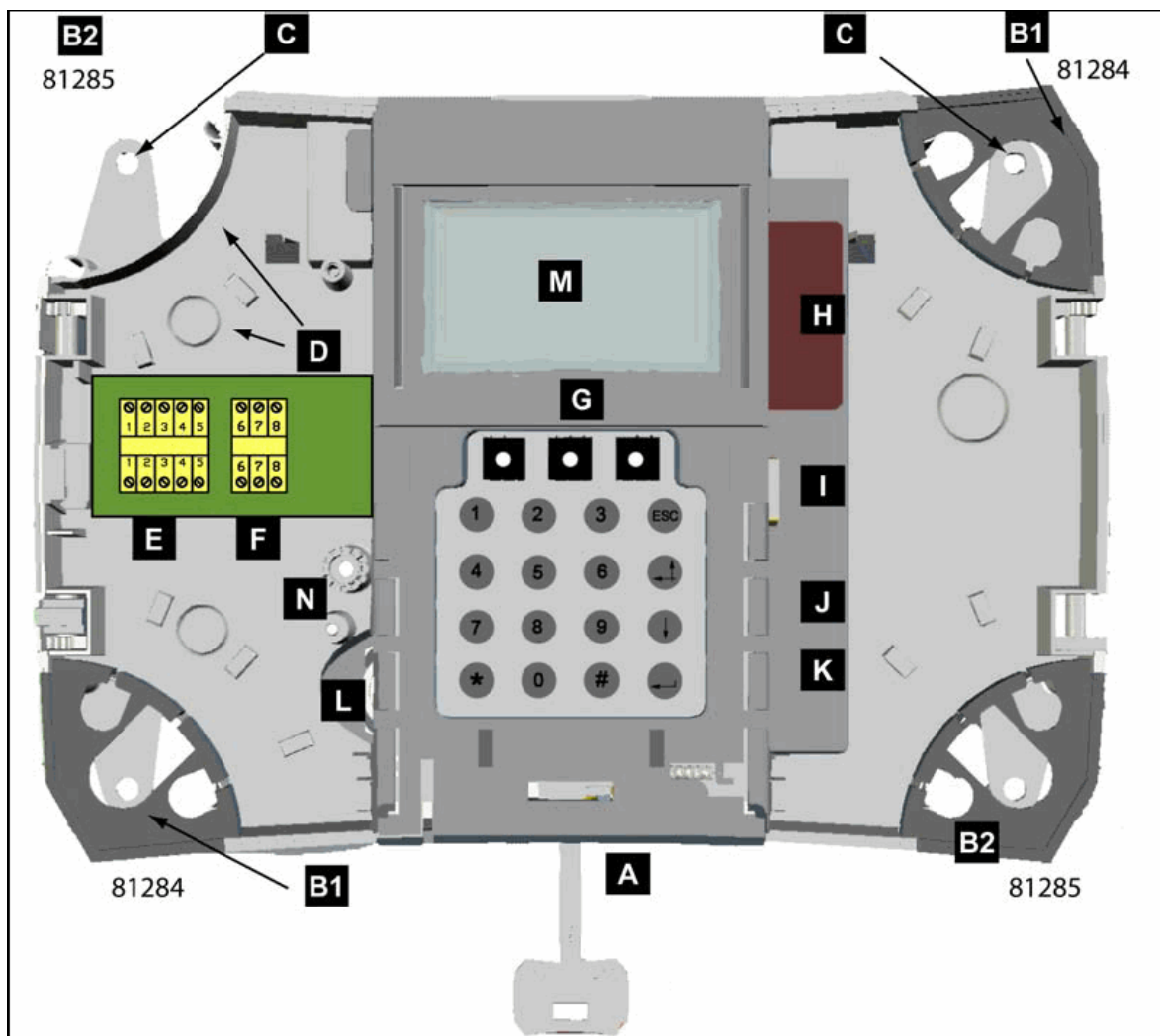


Fig. 2 ACC-Lite Interior Diagram

Item	Description
A	Lock for use with supplied key. The middle of the front lid must be pressed downwards before the left and right lid can be opened.
B1, B2	Corner details that can be knocked out for hiding cable entry.
C	Wall mounting screw holes. Remember to leave approximately 70mm space around the controller.
D	Cable management mounting.
E	RS485 bus connection for devices
F	Not in use
G	Not in use
H	Socket for compact flash card (only supported for Entro upgrade)
I	RS232 Modem / Diagnostics port
J	1 st RJ45 Ethernet connection
K	2 nd RJ45 Ethernet connection
L	Battery socket, type CR2032.
M	Display for showing and entering information
N	Tamper switch

1.4 ACC-Lite Mechanical

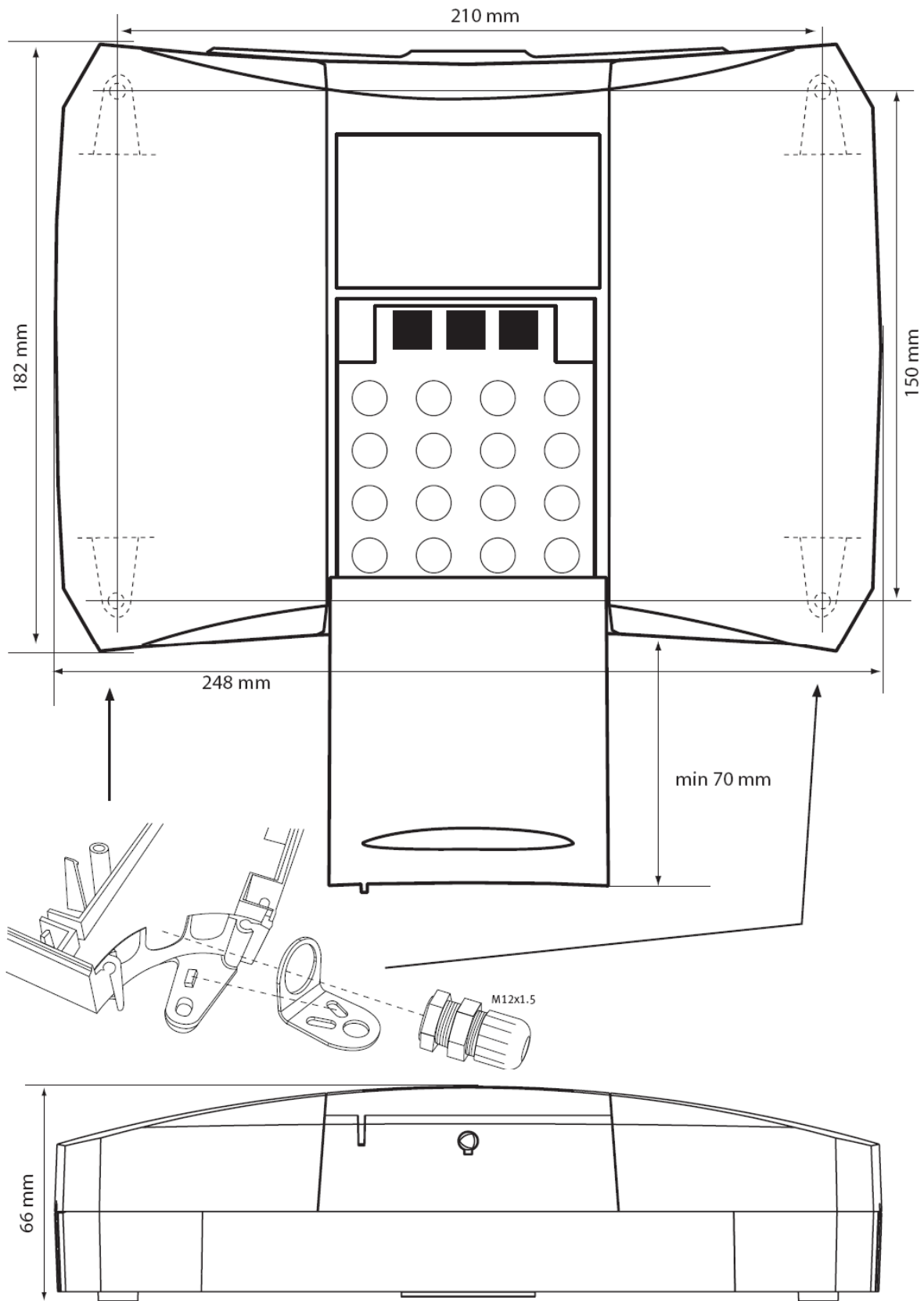


Fig. 3 ACC-Lite Mechanical Layout

2 Hardware Connection

This chapter explains how to connect up the power, communications and other things to the ACC-Lite hardware.

2.1 Basic Connection

The following section outlines the basic tasks required to get the ACC-Lite up and running.

Power Connection

The ACC-Lite requires a 12-24V power supply. Connect the power at terminals 1 and 2 of the ACC-Lite.

Communication with devices

The ACC-Lite has one FLN to communicate with devices, which operates over RS485. The following table explains what devices are available:

Controller	Bus Protocol	Devices Supported
ACC-Lite	ACC FLN	SRI (Single Reader Interface)
		DRI (Dual Reader Interface)
		ERI (Eight Reader Interface)
		8IO (Eight Input / Output Module)
		IPM (32 Input Module)
		OPM (32 Output Module)
	Entro	DC12 (Dual Reader Interface)
		DC22 (Dual Reader Interface)
		DC800 (Dual Reader Interface)
		PD30/40 (Single Reader Door)
		IOR6 (4 Input / 6 Output Module)

Controller	Bus Protocol	Devices Supported
ACC-X	Entro	DC12 (Dual Reader Interface)
		DC22 (Dual Reader Interface)
		DC800 (Dual Reader Interface)
		PD30/40 (Single Reader Door)
		IOR6 (4 Input / 6 Output Module)

- Connect your bus to **COM A** (terminal 4) and **COM B** (terminal 3).
- Connect **COM A** to **COM A** and **COM B** to **COM B** for Entro devices
- Connect + to **COM A** and – to **COM B** for ACC FLN devices

The last Entro device in the chain requires a terminating resistor.

Communication with SiPass integrated

The ACC-Lite communicates with SiPass integrated via TCP/IP. Connect an Ethernet cable to either of the available RJ45 Ethernet connections.

Peer to Peer communication between controllers is also done via TCP/IP.

2.2 Explanation of connectors

The following table explains of each of the available connectors on the ACC-Lite.

Terminal Number	Connector Label	Description
1	12-24V +	Positive connector for power source
2		Negative connector for power source
3	COM B	RS485 bus connection for FLN/Entro devices
4	COM A	RS485 bus connection for FLN/Entro devices
5	FRAME	Signal screen for RS485 bus connection.
6	COM B	Not in use
7	COM A	Not in use
8	FRAME	Not in use

2.3 Mounting the ACC-Lite

The following instruction explains how to mount an ACC-Lite.

To mount an ACC-Lite:

1. Remove the ACC-Lite from its carton and discard the packaging material.
2. Place the ACC-Lite against the surface to which it is to be affixed and mark the location of the mounting holes.
3. Select the appropriate drill bit according to the mounting surface / hole size and drill the holes in the locations marked (if required).
4. Fasten the ACC-Lite to the surface using the correct type of screws or stand-offs for the surface in the 4 locations provided.
5. Download the firmware instruction set (as described in the section titled "Firmware Download").
6. Connect the cabling to the ACC (as described in the section titled "Wiring").
7. Apply power to the ACC and test its operation. This step will require programming of the host software.

2.4 Battery Installation

A battery is already installed and shipped with the ACC-Lite.

To activate the ACC-Lite battery:

1. Open the ACC-Lite case
2. Remove the orange isolating plastic band to activate the battery poles.

3 ACC-Lite Configuration

This chapter outlines the configuration steps required to connect an ACC-Lite with SiPass integrated.

3.1 Upgrading an Entro SR34

This section only applies if you are upgrading Entro controllers in the field to ACC-X units.

Requirements:

- SAN-Disk Compact Flash card.
- ACC-X Firmware upgrade file

To upgrade an Entro Controller to an ACC-X:

1. Determine the version of Entro firmware currently running. This can be found on the Status screen of the Entro Software running on the PC
 - It can also be found on the LCD menu interface of the SR34.
2. Select the appropriate upgrade file as specified in the table below. This file can be found on the CD in the Firmware\ACC\ACC-X folder.
3. Copy this file to the Compact Flash card.

Entro Firmware Version	Renamed ACC-X upgrade file
Earlier versions	patch.dat
5.2	patch_SR34i.dat
5.25	SR_firmware.hex (upgrade path to 5.3)
5.3	SR_firmware.hex (allows > 1Meg files)

4. Determine the IP address of the SiPass integrated Server PC, and record it.
5. Use the LCD menu on the SR34 to determine the current IP address, gateway, subnet mask and door count, and make a note of these values (write it down on paper or otherwise record the values as they will be needed later).
6. Carefully Insert the Compact Flash card into the SR34 controller unit.
7. Answer yes when the LCD menu asks "Upgrade to new firmware?".
8. Wait for the LCD menu to confirm that it has completed the upgrade (this usually takes several minutes) and then remove the Compact Flash card.
9. Wait a moment for the ACC-X firmware to get running.

10. Make a note of the serial number displayed.
 11. Use the LCD menu to re-enter the IP address, gateway, subnet mask and Server IP address.
 12. Repeat steps 4-11 for each controller
 13. For each SR34 upgraded, in the SiPass integrated bring up the Component dialog and from the "ACC Controllers" item select "New Unit".
 14. Select the Controller type as ACC-4, 8, 16, or 32, depending on the door count.
 15. Enter in the serial number saved from ACC-X startup screen and save it.
- The ACC-X should connect to SiPass integrated shortly.

Make a note of the serial number and door count, and contact Logistics to purchase an ACC-X Upgrade licence to make the upgrade permanent

3.2 Configuring Network Settings

Once your ACC-Lite is powered up and connected to the network, you will need to configure the network settings and also note down the serial number.

To configure an ACC-Lite:

1. Open the ACC-Lite case if it is not already open
2. Press **2** to modify Network Settings
3. Press **2** to Change IP Settings
4. Press **1** to set the IP Address
 - Enter the new IP address with the keypad
 - For numbers that are less than three digits add 0s in front, for example 001 or 016
 - Press any key except 1 to continue
5. Press **2** to set the Subnet Mask
 - Enter the subnet mask with the keypad
 - Press any key except 1 to continue
6. Press **3** to set the Gateway Address
 - Enter the gateway address with the keypad.
 - Press any key except 1 to continue
7. Press **4** to set the Host Address. This is the IP address of your SiPass integrated server PC
 - Enter the host address with the keypad.
8. Press **5** to set the Port Address. This is the port the ACC-Lite uses to communicate with SiPass integrated. By default it is 4343
 - Enter the port address with the keypad.
9. Press **1** to Apply Changes and Restart your ACC-Lite

The ACC-Lite will restart with the entered network settings. You should see an Audit Trail message in SiPass integrated indicating that the ACC-Lite is trying to connect.

3.3 Firmware Download

Firmware downloads are done from the SiPass integrated software. This process is the same as downloading firmware for an ACC.

Before you begin:

- The ACC-Lite must be created in the SiPass integrated database and be communicating

To download firmware to the ACC-Lite:

1. Select System > Initialize.
2. Double click your ACC-Lite from the list of available units.
3. Click **Image Download**.
4. Click **Browse** to select the firmware image to download.
5. Click **Download**. The selected firmware will be downloaded and the ACC-Lite will reset once it has been upgraded.
6. Click **Close** to close the Initialize System dialog.

3.4 License Download

License downloads for the ACC-X are done from the SiPass integrated software.

Before you begin:

- The ACC-X must be created in the SiPass integrated database and be communicating

To download a license to the ACC-Lite:

1. Select **System > Initialize**.
2. Double click your ACC-X from the list of available units.
3. Click **License Download**.
4. Click **Browse** to select the firmware image to download.
5. Click **Download**. The selected license will be downloaded to the ACC-Lite.
6. Click **Close** to close the Initialize System dialog.

4 Menu Navigation

This chapter explains the various menu navigation options.

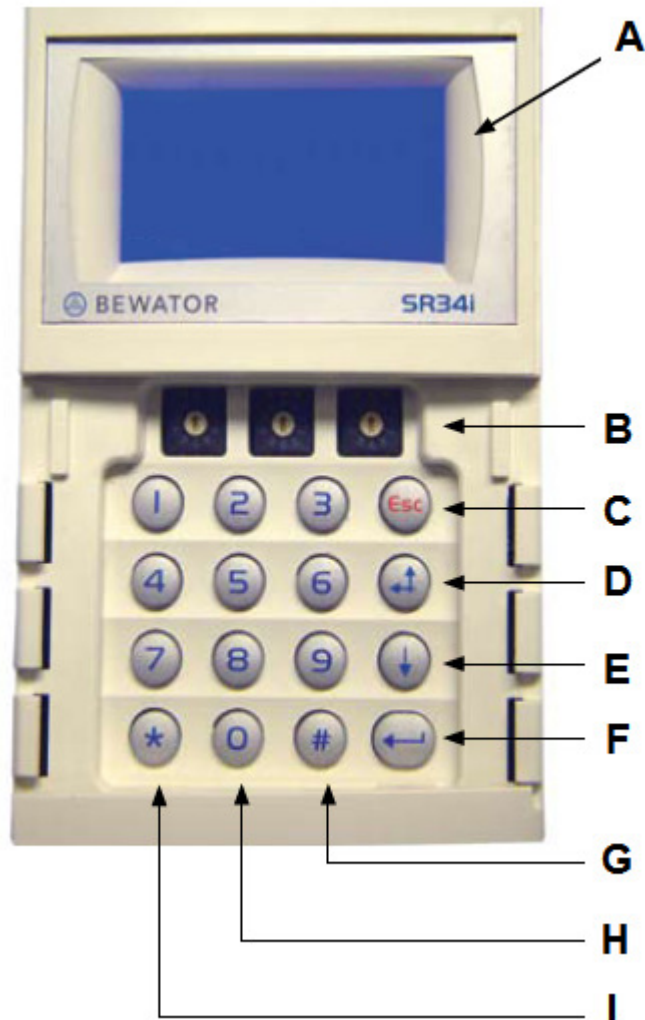


Fig. 4 ACC-Lite Keypad

Item	Description
A	Display for Navigation and Messages
B	Address Setting
C	Escape Key (goes back to the previous menu)
D	Backspace while entering (letters and digits)
E	Confirmation button (some menus)
F	Enter Key
G	No function
H	Number keys 0-9
I	No function

Menu Navigation Options

Menu Structure				Keys	Result
1) System Information	1) General Information			1-1	Returns the serial number, model and hardware type.
	2) Supply Voltage			1-2	Returns the power supply and battery voltage. Note the battery voltage des not automatically update
	3) Software Versions			1-3	Returns the Application version information
2) Network Settings	1) View IP Settings			2-1	Returns the IP settings
	2) Change IP Settings	1) IP Address	Enter IP Address	2-2-1	IP address is set
		2) Subnet Mask	Enter Subnet Mask	2-2-2	Subnet Mask is set
		3) Gateway Address	Enter Gateway Address	2-2-3	Gateway Address is set
		4) Host Address	Enter Host Address	2-2-4	Host Address is set
		5) Port Address	Enter Port Address	2-2-5	Port Address is set
	3) Telnet settings	1) To Disable / To Enable		2-3-1	Toggles telnet access Enabled Disabled
4) Reset to apply changes	1) Reset and apply changes		2-4-1	Resets the ACC-Lite and applies all network changes.	
3) Compact Flash	1) Entro Firmware / Upgrade ACC-Lite Firmware			3-1	Firmware upgrade will commence and a status will be displayed on the bottom line.

5 Keyword index

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