

Connect Intercom

User manual



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1 About this manual

This manual provides a guide to the installation and maintenance of the Connect Intercom terminal. For local languages and full engineering manual, please visit our website.

2 Target group

This manual is intended to provide assistance to engineers installing and maintaining the Connect Intercom terminal at customer sites.

3 Introduction

3.1 Presentation of Connect Intercom

Connect Intercom is a managed service solution for your door intercom system. It uses either an Edge VS5051 terminal or an Edge VS5010 terminal installed adjacent to and connected to a new or existing door intercom. It provides a replacement IP telephony service using Session Initiation Protocol (SIP) for existing telephony that uses PSTN or ATA technology.

PSTN telephony services have no monitoring capability. However, Connect Intercom provides the possibility for the customer to monitor performance themselves using the AddSecure AddView application.

Connect Intercom is easy to install and no additional configuration of the system is required after activation because it is setup through AddSecure Connect.

3.2 Presentation of Addsecure connect

AddSecure Connect is a cloud-based platform from AddSecure that manages secure and controlled transmissions, for example, alarms, for Fire, Intruder, Elevator, Technical and other alarms. The platform simplifies setting up terminals and complying with regulations for the installer, the customer and alarm receiving centres, (ARCs). AddSecure Connect is perfect for every situation where monitored communication is desired, as well as when there is a need for controlled remote access to external devices.

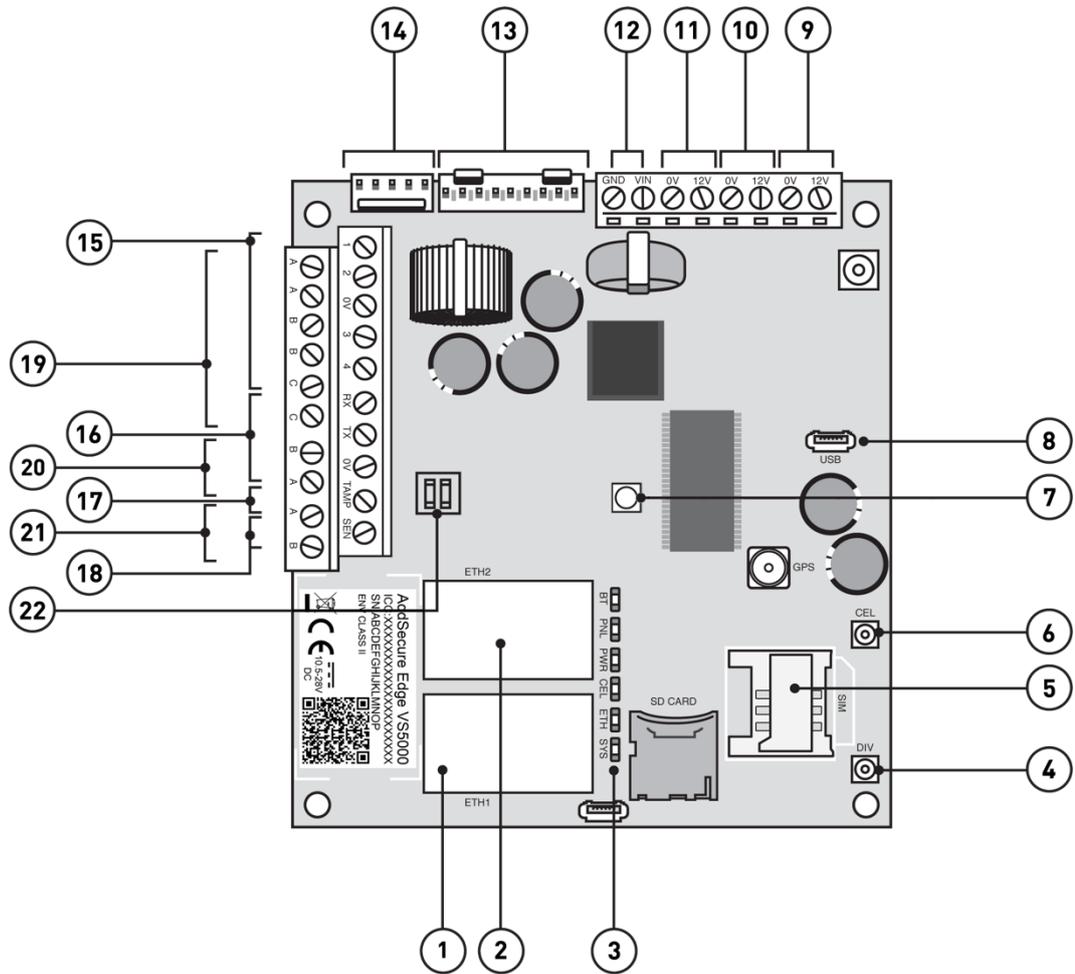
AddSecure Connect also includes the AddView web portal which allows both customers and installers to monitor different installations and for setting up notification services.

Addsecure can remotely analyse and setup an installati over AddSecure Connect if required. You can read more about AddSecure Connect on www.addsecure.com.

4 Before you start

Ensure that a subscription to AddSecure Connect exists for this terminal before starting the installation. If you or the customer do not already have one, please contact AddSecure.

5 Board (PCBA) configuration



- | | |
|---|--------------------------------------|
| ① Ethernet 1 | ⑨ Power out: Vout3 (Call Connect) |
| ② Ethernet 2 | ⑩ Power out: Vout2 (Buzzer) |
| ③ LEDs | ⑪ Power out: Vout1 (Emergency Light) |
| BT = Not in use | ⑫ DC power in |
| PNL = Panel LED | ⑬ Expansion port |
| PWR = Power LED | ⑭ TTL serial port |
| CEL = Cellular LED | ⑮ Pin inputs (4) |
| ETH = Ethernet LED | ⑯ RS232 port |
| SYS = System LED | ⑰ Case Tamper input |
| ④ Cellular diversity antenna port (RX only) | ⑱ PSU sense |
| ⑤ SIM card slot | ⑲ Outputs (3) |
| ⑥ Primary cellular antenna port (TX/RX) | ⑳ RS485 port |
| ⑦ Test Button (Signal Strength) | ㉑ Dial Capture port |
| ⑧ USB port (diagnostics) | ㉒ Battery port |

6 Installing the terminal

6.1 Mounting the terminal

The Edge VS5010 is not supplied with an enclosure, so the PCBA must first of all be installed in a suitable enclosure.

The Edge VS5051 comes pre-installed in an enclosure.

The enclosure containing the terminal should be positioned close to the intercom box and where there is a good cellular connection.

6.2 Connecting power



Power to the terminal must be provided from a power supply providing 10.5 to 28V DC with a recommended 2A current. The power supply must be able to be connected to the terminal PCBA using the screw terminals.

The terminal can be powered from RCO intercom panels.

Addsecure can supply a suitable power supply as an accessory if required, contact AddSecure for details.



IMPORTANT: You can connect the power supply but DO NOT APPLY POWER TO THE TERMINAL NOW. This you will do later.

6.3 Connecting backup batteries



Connect the internal battery to the PCBA battery connector, see item 22 in chapter 5, "Board Configuration".

Note: Only use battery packs provided by AddSecure.

6.4 Connecting the terminal

Connect the cables from the intercom to the Dial Capture ports, see item 21 in chapter 5 "Board Configuration".

6.5 Powering up the terminal

The terminal is now installed, so the power supply can now be connected.

Switch the power on and check that the indicator "SYS LED" is flashing (top green LED on PCBA). If it does not, you need to contact AddSecure.

7 Activating the terminal

The terminal can only be activated by using the Activator Service app Follow this procedure to download the Activator Service app and activate the terminal:

- | Step | Action |
|------|--|
| 1 | <p>Scan one of these QR-codes depending on your mobile device's operating system:</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>App Store QR code</p>  </div> <div style="text-align: center;"> <p>Google Play QR code</p>  </div> </div> |
| 2 | Download and install the AddSecure Service Activator. |
| 3 | Sign in or register an account. You will receive an email with an auto-generated password. |
| 4 | Log in, and select "AddSecure Connect". |
| 5 | Scan the QR-code that is on the label on the terminal enclosure. |
| 6 | Click "Activate". |
| 7 | When "Configuring" is displayed, connect power to the terminal. |
| 8 | <p>Finish this procedure by waiting approx. 3 minutes for the process to finish.</p> <p>When complete, "Service activated" will be displayed.</p> |

8 Configuring the terminal

The terminal does not need to be configured. All the configuration is done by AddSecure directly to the unit.

9 Commissioning

VS5051 terminals do not require manual programming. All required information for configuration will have been provided when the AddSecure Subscription Application 5t was completed.

Purpose	Single Path "Status OK"
Panel (PNL)	ON = OK
Power (PWR)	ON = OK Short blip = charging Flicker = battery problem
Cellular Path (CEL)	ON = OK Short blips = sending data
Ethernet Path (ETH)	Not Enabled
System (SYS)	ON = OK

The terminal is delivered with relevant area code digits appended, e.g. "0046" for deliveries to Sweden. If you need to change these appended digits, contact AddSecure.

For the VS5051 terminal: You can check the status of the LEDs on the lid of the terminal enclosure to ensure settings have been correctly downloaded.

If LEDs do not have these states after successfully using the Activator Service app, please contact your local AddSecure Support team for

assistance. If all the LEDs are correct, a simple communication test should be run, see section 9.1 below.

9.1 Communication test

To perform a simple communication test, one of the intercom buttons must be set to call your mobile phone.

Start the test by pressing the reprogrammed intercom button. Your mobile phone should ring and display the intercom screen. Respond by clicking «Open the door». If the door lock unlocks, this indicates that there is clear two-way communication.

After the test, the intercom button must be reprogrammed back to the correct telephone number.

10 Maintenance routine

Maintenance routines are as follows:

- Periodic check of communications.
- Maintaining data.
- Confirm current status.
- Periodic battery check (VS5051 only).

10.1 Periodic check of communications

This is simply to ensure that the terminal is still online. Check that the Cellular LED, marked “CEL” (3 in section 5 “Board configuration”) is lit. If it is, cellular connection is good. If it is not lit, troubleshoot your cellular signal.

10.2 Maintaining data

To change phone numbers, refer to the manual for the intercom panel.

AddSecure maintains information about account numbers and information, based on input from the owner or service partner. To make changes to this, contact AddSecure.

10.3 Confirm current status

Check the status by checking the LEDs on the lid of the unit.

When a LED is lit, that indicates that this particular function is working correctly. For details, see section 9 “[Commissioning](#)”.

10.4 Periodic battery check: For the VS5051

The status of the battery should be manually checked periodically even though the battery status is continuously tested automatically. If the self-test finds the battery faulty, the Power LED will flicker, (see section 9 “[Commissioning](#)”) and a message will be sent through AddSecure Connect to the ARC. The battery should then be replaced with a new battery from AddSecure.

11 Specifications

Section	Details
Ethernet	
Standard	10/100 Base T with auto-negotiation, up to 100m
Connection	RJ45 socket for CAT5 cabling
IP addressing	Dynamic (DHCP) or fixed
Fault detection	Loss of Ethernet synchronisation
Wi-Fi	
Standard	IEEE 802.11 b/g/n
Connection	2.4GHz b/g/n with internal PCBA chip antenna
Fault detection	Loss of association/data
4G/3G/2G	
Frequencies	Penta band LTE (4G)
	800/900/1800 MHz
	2100/2600 MHz
	Dual band UMTS (3G)
	900/2100 MHz
	Dual band GSM (2G)
	900/1800 MHz
Connection	MMCX socket for antenna, 2 nd RX antenna socket for diversity
Fault detection	Loss of registration with network
IP	
TCP ports (outbound)	53165 (Alarms & Polling), 51292 (Diagnostic & Reflashing), 10001 (Upload/Download)
Alarm transmission interfaces	
Interface to ARC	AddSecure Connect
Dial capture interface to voice panel	Two-wire interface via terminal block.
Serial interfaces	RS485, TTL (max 3 metres), RS232 (max 3 metres)
PIN Inputs interface	Maximum input voltage range 0V to +28V DC (max 3 metres)
	Input "low" (alarm) threshold < 1V
	Input "high" (restore) threshold > 2V
	Internal pull-up impedance 10K to 3.3V supply
Relay outputs	
Maximum operating voltage	24V DC
Maximum current rating	100mA DC
Local configuration	
Bluetooth	Dual mode Bluetooth 4.0
USB	Micro USB device, for use with IRIS Toolbox
Power supply	
Supply voltage	10.5V to 28V DC
Typical current (no DC outputs)	200mA @ 12V DC (not charging), 500mA @12V DC (charging)
Maximum current (no DC outputs)	1A @ 12V DC
Recommended external PSU (with DC power outputs)	 15V DC 2A 30 Watt. Note: To comply with the Radio Equipment Directive, 2014/53/EU.
DC power outputs	

Section	Details
Output voltage	12V DC
Total output current (shared, continuous rating)	500mA
Current protection	1.5A electronic protection, 2.2A polyfuse
Number of switchable outputs	3
Voltage at which fault is reported	10V
Voltage at which fault is restored	11V
Power storage device	
Type	7.2V NiMH rechargeable batteries
Capacity	3000mAh
Time to recharge to 80% capacity	16 hours
Voltage at which fault is reported	6.75V DC
Voltage at which fault is restored	7.50V DC
Over-voltage protection triggered	9.5V DC
Deep discharge protection	6V DC
Environmental	
Operating temperature range	-10°C to 55°C
Operating humidity range	95% max., non-condensing
Weights and dimensions	
Physical dimensions (L x W x D)	15 cm x 17 cm x 5.1 cm
Terminal weight (housing, PCBA, battery)	1.2 Kg
Fully packaged weight	1.8 Kg

12 Safety

In order to avoid safety hazards, care should be taken when connecting telecommunications equipment to ensure that only compatible interfaces are connected. This is measured using SELV values. These are defined as a secondary circuit which is so designed and protected that under normal and single fault conditions, the voltage between any two accessible parts does not exceed a safe value (42.4V AC peak or 60V DC maximum).

The terminal's interfaces have the following safety classifications:

- Dial capture interface: SELV suitable for connections to the Telephone Network Voltage (TNV) interface of single line telecommunications equipment such as telephones, alarm panels, etc.
- Power Interface: SELV for connection to DC Supply
- Inputs: SELV for connection to alarm output pin.

13 Conformance

The terminal complies with the following European Directives and standards:

- 2014/53/EU (Radio Equipment Directive)
- 2002/96/EC (WEEE)
- 2011/65/EC (ROHS)
- No. 1907/2006 (REACH)

14 Contact

General: www.addsecure.com

14.1 Installation and service support

Norway	Sweden
Telephone: +47 911 33 700	Telephone: +46 20 322 000
Email: support.smartalarms.no@addsecure.com	Email: support.smartalarms.no@addsecure.com

14.2 Sales enquiries

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Tel. no.: +47 911 33 700	Tel. no.: +46 8 685 15 10
Email address: order.smartalarms.no@addsecure.com	Email address: order.smartalarms.no@addsecure.com

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