



Lonix Security Configuration Manual

Version Sep/2010

LONIX LTD

Teollisuuskatu 33
FI-00510 Helsinki, Finland

tel +358 9 349 9853

fax +358 9 349 9863

www.lonix.com

Contents

1	Introduction	3
2	LX-SEC-V1000 Network Controller	3
	2.1 LX-SEC-V1000 Input Configuration Parameters.....	3
	2.2 LX-SEC-V1000 Output Configuration Parameters.....	3
3	LX-SEC-V100 Door/Reader Interface Panel	4
	3.1 LX-SEC-V100 Reader Interface Configuration Parameters.....	4
	3.2 LX-SEC-V100 Input Configuration Parameters.....	6
	3.3 LX-SEC-V100 Output Configuration Parameters	6
4	LX-SEC-V200 Input Monitor Interface Panel.....	7
	4.1 LX-SEC-V200 Input Configuration Parameters.....	7
	4.2 LX-SEC-V200 Output Configuration Parameters.....	7
5	LX-SEC-V300 Output Control Interface Panel	8
	5.1 LX-SEC-V300 Output Configuration Parameters	8
	5.2 LX-SEC-V300 Input Configuration Parameters.....	8
6	LX-SEC-V2000 Reader Interface Panel / Network Controller	9
7	More information	9

1 Introduction

Lonix Security is the integrated IP based solution for your outstanding security. Lonix Security Panels include all the logic and I/O for implementing complex, large-scale access control and security systems. The panels are configured and commissioned with Lonix Project Creation Tool PCT. The solution allows for smooth integration with automation and building management systems.

2 LX-SEC-V1000 Network Controller

The Network Controller LX-SEC-V1000 is the TCP/IP interface server connectivity and access control processing for up to 32 interface panels. The LX-SEC-V1000 holds the access control database including door groups, access groups, schedules and processes events such as alarms in the access control system.

2.1 LX-SEC-V1000 Input Configuration Parameters

Each input holds the following configuration parameters:

Input Debounce (ms)

Defines the time in milliseconds the contact needs to be shorted/opened until the input is regarded valid. This is to ensure that small ripple in the contact will not change the status of the input.

Value: 0 ... 2040 milliseconds

Contact Type

Defines whether the device connected to an input is normally open or normally closed.

Value: Normally Closed / Normally Open

2.2 LX-SEC-V1000 Output Configuration Parameters

Each output (auxiliary relay) holds the following configuration parameters:

Relay X Minimum Time (s)

Defines the time the relay stays activated in case of a direct control event from system host.

Value: 0 ... 1620 seconds

3 LX-SEC-V100 Reader Interface Panel

The Reader Interface Panel LX-SEC-V100 connects two access control card readers via Wiegand interface, controlling one or two doors.

3.1 LX-SEC-V100 Reader Interface Configuration Parameters

The interface type should be set according to the type of card reader attached:

Reader

This type should be used when there is a card reader without a keypad connected to the interface.

Keypad Reader

This type should be used when there is a card reader with a keypad connected to the interface.

Each reader interface holds the following configuration parameters:

Normal Grant Access Time (s)

This configuration parameter defines the time the door is unlocked when a valid card (and PIN) is shown to the reader.

Value: 0 ... 1620 seconds

Ext Grant Access Time (s)

This configuration parameter defines the time the door is unlocked when an external grant access signal (e.g. from COBA User Interface) is received.

Value: 0 ... 1620 seconds

Min Open Time (s)

This configuration parameter defines the minimum time

Value: 0 ... 1620 seconds

Direct Relay Minimum Time (s)

This configuration parameter defines the minimum time

Value: 0 ... 1620 seconds

Door Held Time (s)

This configuration parameter defines the time the door can stay open before a Door Held Alarm is generated. Door Held Time is calculated only after the Door Monitor senses a door held open beyond the relay + shunt time + reporting delay time.

Value: 0 ... 1620 seconds

REX Open Time (s)

Defines the time the door is unlocked when a request-to-exit signal is received.

Value: 0 ... 1620 seconds

Reader Type

Defines the protocol of the reader connected to the interface.

Value: Wiegand / Clock-and-Data

I'm Alive Enable

Enables or disables the I'm Alive message sent from the reader to the Interface Panel.

Value: Enabled / Disabled

Report Enabled

Enables Card Read parity failure, Reader I'm Alive, Reader Card Read, Door REX, and Door Monitor Switch input changes.

Value: Enabled / Disabled

I'm Alive Time (s)

Defines the time between I'm Alive messages.

Value: Disabled / 30 seconds / 1 min / 5 min

I'm Alive Message

Defines the type of I'm Alive message.

Value: 0 ... 255

REX Switch X Debounce Time (ms)

Defines the time in milliseconds the REX switch needs to be pressed until the input is regarded valid. This is to ensure that small ripple in the contacts will not cause an unnecessary request-to-exit.

Value: 0 ... 2040 milliseconds

Door Switch X Debounce Time (ms)

This configuration parameter defines the time in milliseconds the door monitor contact needs to be shorted/opened until the input is regarded valid. This is to ensure that small ripple in the contacts will not trigger an unnecessary door forced alarm.

Value: 0 ... 2040 milliseconds

If the reader interface type is set to Keypad Reader, the following configuration parameters are also used:

Access Mode

This configuration parameter defines the needed actions to gain access. The most secure configuration is Card and PIN as then a user needs to show the card and provide the proper PIN code to gain access.

Value: PIN Only / Card and PIN / Card or PIN

PIN Code Max Length

This configuration parameter defines the maximum length of the PIN code. If the PIN code associated with a keycard is shorter than this value, then an additional end of entry key should be pressed when giving the PIN.

Value: 4 ... 8

PIN Input Time

This configuration parameter defines the time in which the PIN code should be given, otherwise access is denied.

Value: 0 ... 100

PIN End of Entry Code

This configuration parameter defines the key that is used to input an end of entry code in case the PIN associated with a key card is shorter than the PIN Code Max Length.

Value: 10 (asterisk) / 11 (hash)

PIN Clear Code

Defines the key that is used to clear a mistyped PIN code.

Value: 10 (asterisk) / 11 (hash)

PIN Allowed Attempts

This configuration parameter defines the maximum number of attempts to input a PIN code.

Value: 1 ... 10

PIN Lockout Time

This configuration parameter defines the time a key card is blocked after maximum number of attempts.

Value: 0 ... 99 seconds

PIN Keypad Type

This configuration parameter defines the keypad type of the connected reader.

Value: Essex / HID

3.2 LX-SEC-V100 Input Configuration Parameters

Each input holds the following configuration parameters:

Input Debounce (ms)

This configuration parameter defines the time in milliseconds the contact needs to be shorted/opened until the input is regarded valid. This is to ensure that small ripple in the contact will not change the status of the input.

Value: 0 ... 2040 milliseconds

Contact Type

This configuration parameter defines whether the device connected to an input is normally open or normally closed.

Value: Normally Closed / Normally Open

3.3 LX-SEC-V100 Output Configuration Parameters

Each output (auxiliary relay) holds the following configuration parameters:

Relay X Minimum Time (s)

Defines the time the relay stays activated in case of a direct control event from system host.

Value: 0 ... 1620 seconds

4 LX-SEC-V200 Input Monitor Interface Panel

The Input Monitor Interface Panel LX-SEC-V200 connects up to 16 supervised input circuits. Each input point monitors and reports normal, off-normal, and alarm states. LX-SEC-V200 also includes two auxiliary relays.

4.1 LX-SEC-V200 Input Configuration Parameters

Each input holds the following configuration parameters:

Input X Debounce (ms)

This configuration parameter defines the time in milliseconds the contact needs to be shorted/opened until the input is regarded valid. This is to ensure that small ripple in the contact will not change the status of the input.

Value: 0 ... 2040 milliseconds

Contact Type

This configuration parameter defines whether the device connected to an input is normally open or normally closed.

Value: Normally Closed / Normally Open

4.2 LX-SEC-V200 Output Configuration Parameters

Each output (auxiliary relay) holds the following configuration parameters:

Relay X Timer Value (s)

Defines the time the relay stays activated in case of a direct control event from system host.

Value: 0 ... 1620 seconds

5 LX-SEC-V300 Output Control Interface Panel

The LX-SEC-V300 Output Control Interface Panel contains 12 latching Form-C relays, which can connect up to 12 devices controllable by simple contact closures, such as logic inputs for process equipment, HVAC and elevator control panels, CCTV switchers, etc. LX-SEC-V300 also contains two inputs.

5.1 LX-SEC-V300 Output Configuration Parameters

Each output holds the following configuration parameters:

Relay X Timer Value (s)

Defines the time the relay stays activated in case of a direct control event from system host.

Value: 0 ... 1620 seconds

5.2 LX-SEC-V300 Input Configuration Parameters

Each input holds the following configuration parameters:

Input X Debounce (ms)

This configuration parameter defines the time in milliseconds the contact needs to be shorted/opened until the input is regarded valid. This is to ensure that small ripple in the contact will not change the status of the input.

Value: 0 ... 2040 milliseconds

Contact Type

This configuration parameter defines whether the device connected to an input is normally open or normally closed.

Value: Normally Closed / Normally Open

6 LX-SEC-V2000 Reader Interface Panel / Network Controller

The LX-SEC-V2000 is a combination of an LX-SEC-V1000 Network Controller and LX-SEC-V100 Door/Reader Interface Panel. The configuration of an LX-SEC-V2000 is thus exactly the same as configuring an LX-SEC-V1000 with one LX-SEC-V100 in address 0. Note that no additional interface panels can be attached to LX-SEC-V2000.

7 More information

In case you need additional support, please contact Lonix support team:

Lonix Ltd

Teollisuuskatu 33
FI-00510 Helsinki
Finland
Tel: +358 9 349 9853
Fax: +358 9 349 9863
Web: www.lonix.com