SYSTEM'S CONFIGURATION

ACCESS CONTROL SYSTEM
STYLOS LINE SERIES

ISEO Zero1

ELECTRONIC
SOLUTIONS

How to use this manual

Thanks for choosing this innovative ISEO product.

This user manual was elaborated to offer instructions on configuring a SIMPLY STYLOS LINE system, consisting of readers of the STYLOS series and LockBus actuators. All compatible products are indicated in the *table of compatible products* with the SIMPLY STYLOS LINE system.

The configuration and changes to the system require the intervention of qualified staff, adequately trained by ISEO.

- Read this manual prior to proceed with the configuration in order to ensure the proper and safe operation of the system.

- Preserve this manual for future reference and for potential changes to the system or to replace components.

Information icons

Please familiarise with the icons below, for an easy reading of the manual:

WARNING: it indicates situations that could cause harm to people or animals

BE CAREFUL: It indicates situations that could cause damages to the device or other apparatuses

NOTE: it indicates notes, suggestions and additional information

Information on copyright

The rights concerning all technologies and products which are part of this device, belong to the relative holders.

Summary

Introduction

SIMPLY STYLOS LINE is an effective access control system, user-friendly and at the same time, powerful and of high quality.

The SIMPLY STYLOS LINE system consists of Access Control Devices (ACD) and actuators, with which it is possible to configure different system's variants according to the type of door to control.

The system's components communicate with each other through a LockBus network with coded security communication protocol.

The scope of this manual is to describe the concepts relative to the devices' configuration in a LockBus communication network, based on the type of system's door.

Components compatible with the SIMPLY STYLOS LINE system

READERS	ACTUATORS
  PAD ACD **STANDARD ACD**	 **ACTUATOR FOR ELECTRO-MECHANICAL LOCKS** **DROP-BOLT**

For references relative to electric connections, location of the configuration jumpers and programming keys, refer to the specific installation manuals contained inside the packages of the devices.

The examples and the description of this manual refer to the names and numbers common for all devices of the SIMPLY STYLOS LINE system. Follow the instructions herein and apply them to the devices as indicated in the relative installation manuals.

The manuals are available also online, in the download area of ISEO Serrature's website, at http://www.iseoserrature.com.

Installation

Preamble

In the SIMPLY STYLOS LINE system, all the devices that make it up, readers and actuators, communicate with each other through the coded LockBus protocol. The coding key is distributed by the device classified as MASTER to all other SLAVE devices of the system, during the key exchange process in the installation or editing phase.

The configuration process of the system or door must be performed following the sequence below:

- Cabling of the LockBus (see installation manuals of the devices of the STYLOS LINE series)

- Configuration of the addresses

- Exchange of coded keys

- Initialisation and configuration of the devices (see user manuals of the devices of the STYLOS LINE series)

Cabling of the LockBus

Connect the following contacts of all door's devices, in parallel:

- SUPPLY POSITIVE POLE (+)

- SUPPLY NEGATIVE POLE (GND)

- LOCKBUS

Configuration of the addresses

Each door can consist of minimum 2 devices (a reader and an actuator) up to maximum 8 (4 readers and 4 actuators), each of which must be identified through a univocal address between 0 and 7.

Address 0 is attributed to the <u>MASTER reader,</u> an essential part of the system. If only one reader is present, this is the MASTER reader, while if more readers are present, select one as MASTER reader (address 0) and configure the others using addresses other than 0 (2, 4 or 6).

Even addresses are reserved to readers and odd addresses to actuators, as indicated in the table:

DEVICE	ADDRESS
MASTER READER	0
OTHER READERS	2 , 4 , 6
ACTUATORS	1 , 3 , 5 , 7

Configure the addresses on each device according to the selected type of door, assigning the addresses as described in the configurations included in chapter *Types of system*.

Exchange of coded keys

The LockBus protocol of the SIMPLY STYLOS LINE is coded to ensure the system's security.

During the initialization or modification phase of the system, the MASTER device (address 0) must generate and communicate the coded keys to all other SLAVE components (addresses from 1 to 7) of the system.

To exchange the keys, proceed as follows:

1. Disconnect the POWER/ LOCKBUS connector from all devices.

2. Put the actuators in ''Key exchange request'' mode, one by one: by pressing a programming button, connect the SUPPLY/ LOCKBUS connector and wait at least one second prior to release the button.

3. Put the readers in ''Key exchange request'' mode, one by one, leaving the MASTER reader for last: by pressing a programming button, connect the SUPPLY/ LOCKBUS connector and wait for the acoustic signal prior to release the button.

4. After connecting the MASTER device, start to exchange keys. At the end of the operation, the MASTER device emits 5 acoustic signals and the ISEO logo appears on the display if PAD ACD, or the fixed blue lights in case of Standard ACD.

   Should point 4 not be successful, repeat the procedure from point 1.

5. The exchange of keys has been completed, the system's mapping has been created and remains unaltered until the following key exchange, required only to replace or add devices.

	In any case, do not keep the programming button pressed for over 2/3 seconds.

Types of system

This section includes some examples of systems and the relative address configurations. For the physical configuration procedure, refer to the installation manual contained in the device's packaging.
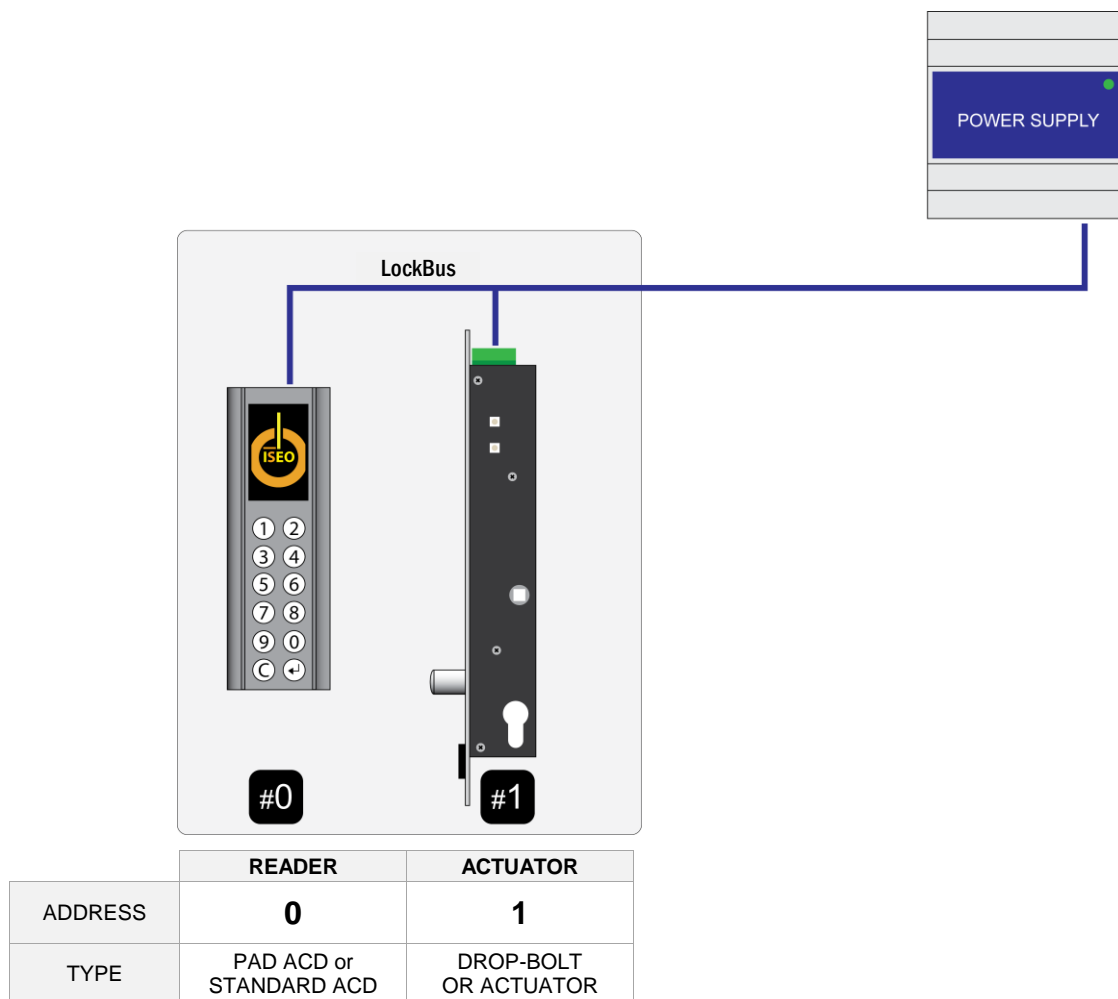
The LockBus protocol of the SIMPLY STYLOS LINE series is designed so that the readers with address 0 and 2 control the actuators with addresses 1 and 5, while the readers with address 4 and 6 control the actuators with address 3 and 7.

> ⚠ For the proper operation of the system, follow the configurations of the devices' addresses described in the examples.
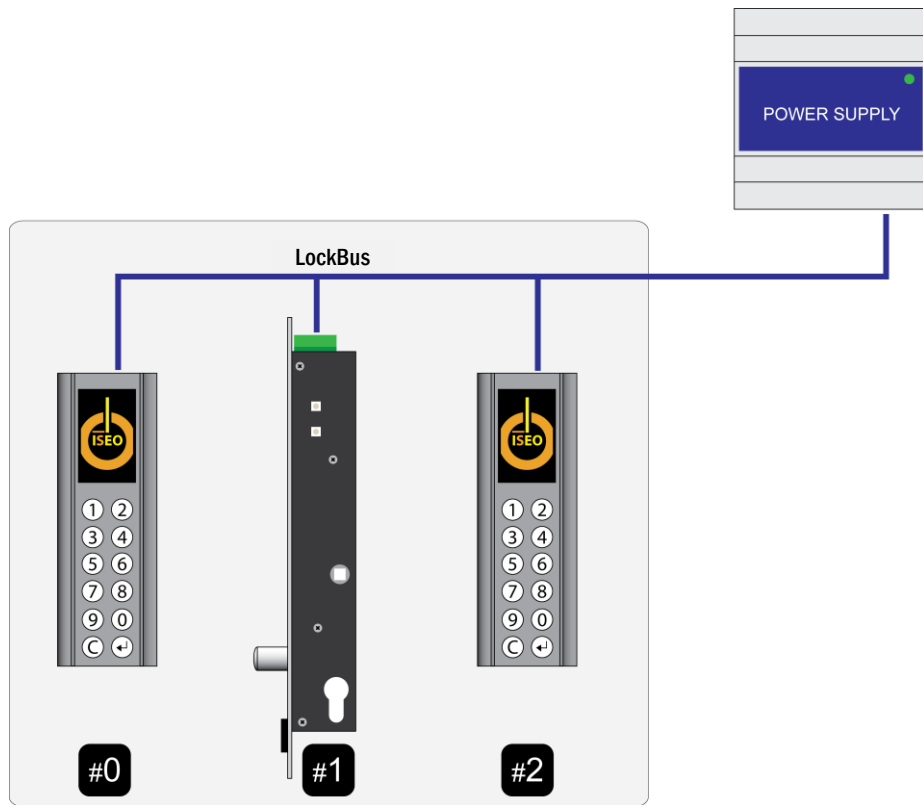
Configuration 1 reader 1 actuator

It is the basic configuration of the door, with electronic opening from a single point, consisting of a reader #0 (MASTER address: 0) and an actuator #1 (address: 1).

	READER	ACTUATOR
ADDRESS	0	1
TYPE	PAD ACD or STANDARD ACD	DROP-BOLT OR ACTUATOR

Configuration 2 readers 1 actuator

In this configuration, the door can be opened from two points and the system consists of a reader #0 (MASTER address: 0), a reader #2 (address: 2) and an actuator #1 (address: 1).

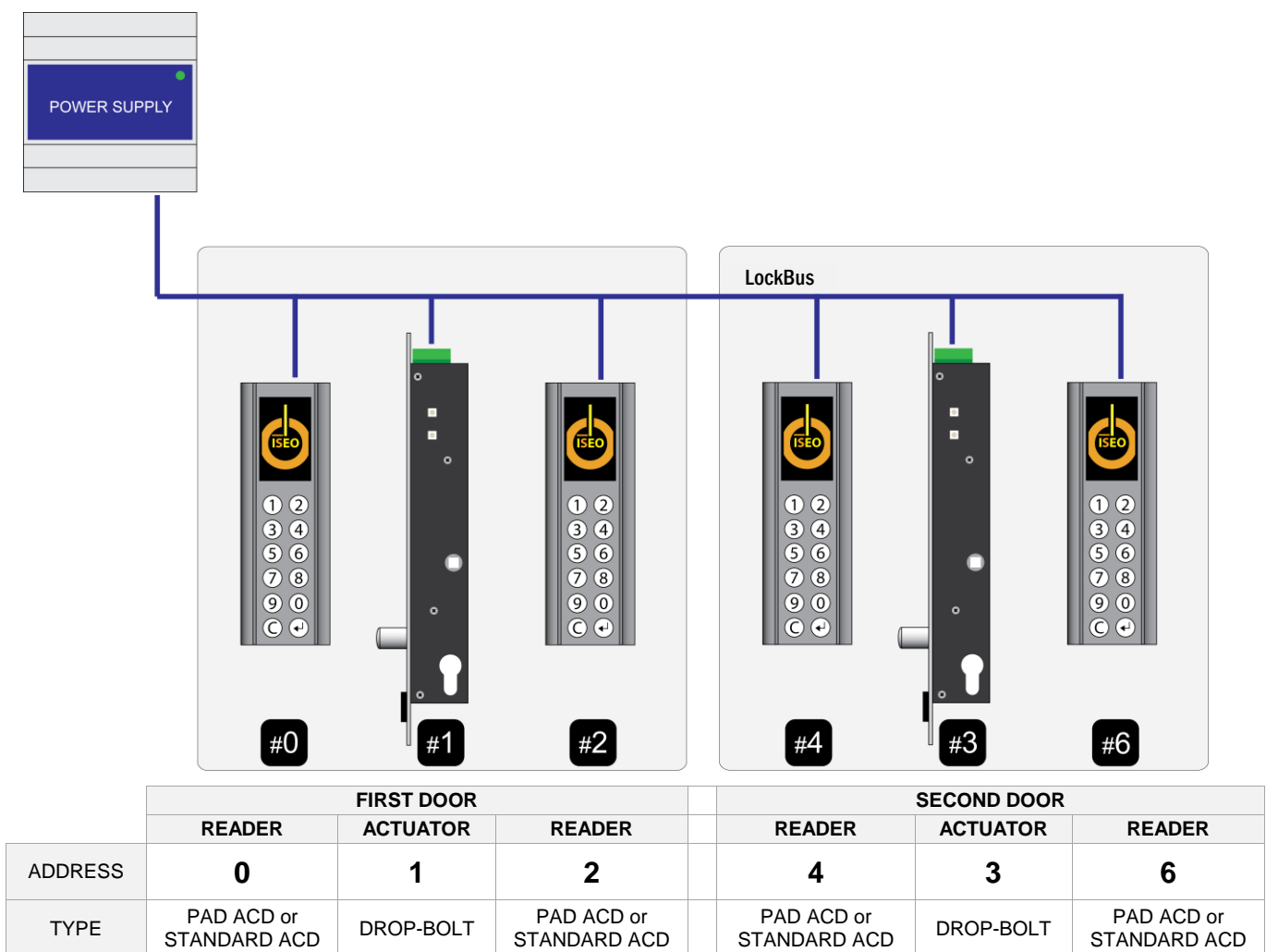|	READER	ACTUATOR	READER
ADDRESS	**0**	**1**	**2**
TYPE	PAD ACD or STANDARD ACD	DROP-BOLT OR ACTUATOR	PAD ACD or STANDARD ACD

Configuration 4 readers 2 actuators with interlock function

This example of application shows a configuration extended to 2 doors, in which a reader #0 (MASTER address: 0), and reader #2 (address: 2) of the first door send the opening command and receive the status of the first door from actuator #1 (address: 1), while readers #4 (address: 4) and #6 (address: 6) send the opening command and receive the status of the second door from actuator #3 (address: 3).

If the system is configured with manual or automatic interlock, a door can be opened only if the other one is closed. The MASTER device manages the statuses through LockBus communication. In this case, the actuators' addresses must be compulsorily 1 and 3.

> ⚠ In the drop-bolt manual, refer only to the address configuration page (setting them at 1 and 3 respectively) and not to the configuration page of the interlocked system, since this is valid only for connection without the STYLOS LINE readers.

	FIRST DOOR				SECOND DOOR		
	READER	**ACTUATOR**	**READER**		**READER**	**ACTUATOR**	**READER**
ADDRESS	**0**	**1**	**2**		**4**	**3**	**6**
TYPE	PAD ACD or STANDARD ACD	DROP-BOLT	PAD ACD or STANDARD ACD		PAD ACD or STANDARD ACD	DROP-BOLT	PAD ACD or STANDARD ACD

Replacement or addition of devices

The security of the SIMPLY STYLOS LINE system is guaranteed by the coded transmission and exchange of coded keys, programmed during the mapping phase.

No other device can communicate with the system, if the key exchange did not take place.

For this reason, the replacement or addition of new devices to the system requires a new mapping between devices, also pre-existing ones, for which a new key will be created.

To add or replace a device to the system's LockBus, whether reader or actuator, make sure to configure the appropriate address as described in chapter *Address configuration* and repeat the procedure described in chapter *Exchange of coded keys.*

> If the *Coded key exchange* procedure is not repeated, the new added or replaced device will not communicate with the other devices and therefore it will not work properly.