

# Instructions manual

# Openlinx



# manas





INSTRUCTIONS MANUAL

# Openlinx

TRANSLATED DOCUMENT



Carefully read these instructions in their entirety before starting to use the unit. This manual contains all the required information for the use and care of the product. Keep this manual in a safe place for subsequent consultation.

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## 1 - INTRODUCTION

OPENLINX is an advanced communications device to control any Manual automatic door or access barrier system.

The manusa OPENLINX system allows connecting any automatic door to any immotics system, building automation system or industrial communications bus, allowing integrated and remote control of all its modes, operating parameters and alarms in a common system with the rest of the building or infrastructure's installations. To do so: It is standard installed in any ModBus/TCP network

Interfaces are available with other systems such as: KNX, LonWorks, ProfiBUS, etc.

It allows integrating the door or door system in SCADAs via OPC.

If you want to manage a door system in a specific way, OPENLINX is the support you need for the Manusa Manulink control software. To do so it allows connecting a MANUSA operator to a Local Area Network (LAN) via an Ethernet port.

It has a Webserver so that from any browser you can access all the operating modes, event log and time control of the door and carry out people counting.



### 1.1– TECHNICAL CHARACTERISTICS

Characteristic	Value
Power supply	12-24 V DC
Electricity consumption	80mA
Operating ambient temperature	From –20° to 60°
Dimensions	240x90x49mm
Maximum length Manusa Bus	10m
Ethernet Connection	100Base-T (100Mbps, RJ-45)
Ethernet Cable	Cat5
Supported network protocols	UPnP, TCP, IPv4, DHCP, UDP, ARP, ICMP

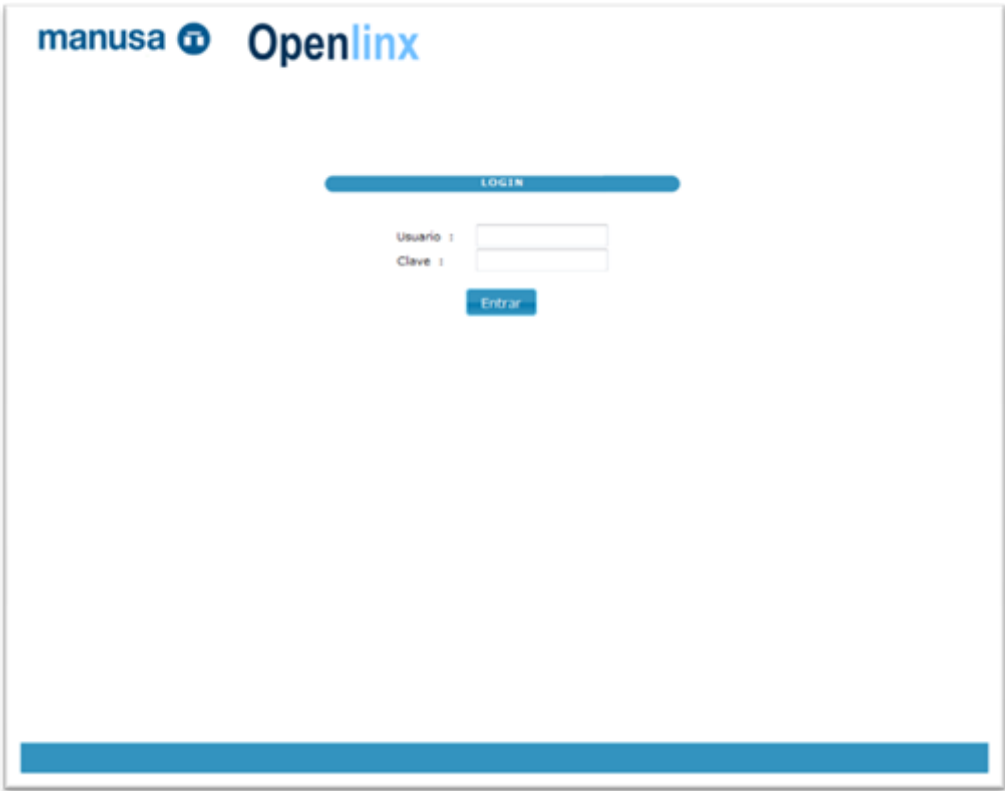
1.2– START-UP

In the first place, to establish the web service we should have a fully operational Openlinx system with an IP address. The Openlinx is supplied with the DCHP and the UPnP activated. This allows the customer's computer to automatically detect the installed Openlinx/s as long as the operating system installed in the computer is Windows XP or higher. To find the Openlinx in the network, we can find them using my “My websites”

If the network Openlinx connects to does not have a DHCP server, you can access via the system's default IP address, which is **192.168.2.103**.

From here, go to chapter 2.1 to configure the IP address you require.

If it is the first time you are connecting, you will see the "Login" page as shown in the image below.



Defined default users:

User	Password	User functions
Basic	MANUSAPWD	Change the door mode
Admin	MANUSAPWD	Basic + change time programming

## 2 - DEVICE CONFIGURATION

### 2.1- NETWORK ADJUSTMENT

In the "Net" configuration page we can change the network configuration of the Openlinx system. Clicking on any of the fields that appear on the page (showing the current configuration of the plate), we will see that a pop-up window appears that allows us to modify the current configuration.

As well as being able to include fields such as IP address, netmask, etc., we will see two checkboxes to activate the DHCP and uPnP configurations. In the last box we can also modify the "uPnP Name" field, which will modify the make that will appear in the uPnP icon of the device.

If a static network configuration is established (the DHCP checkbox disabled) we should fill in ALL the fields, to obtain a valid IP configuration. On the contrary, the final configuration may be wrong and operate incorrectly. Finally, after clicking **SAVE**, the system will automatically reboot, applying the new network configuration.

### 2.2- CLOCK ADJUSTMENT

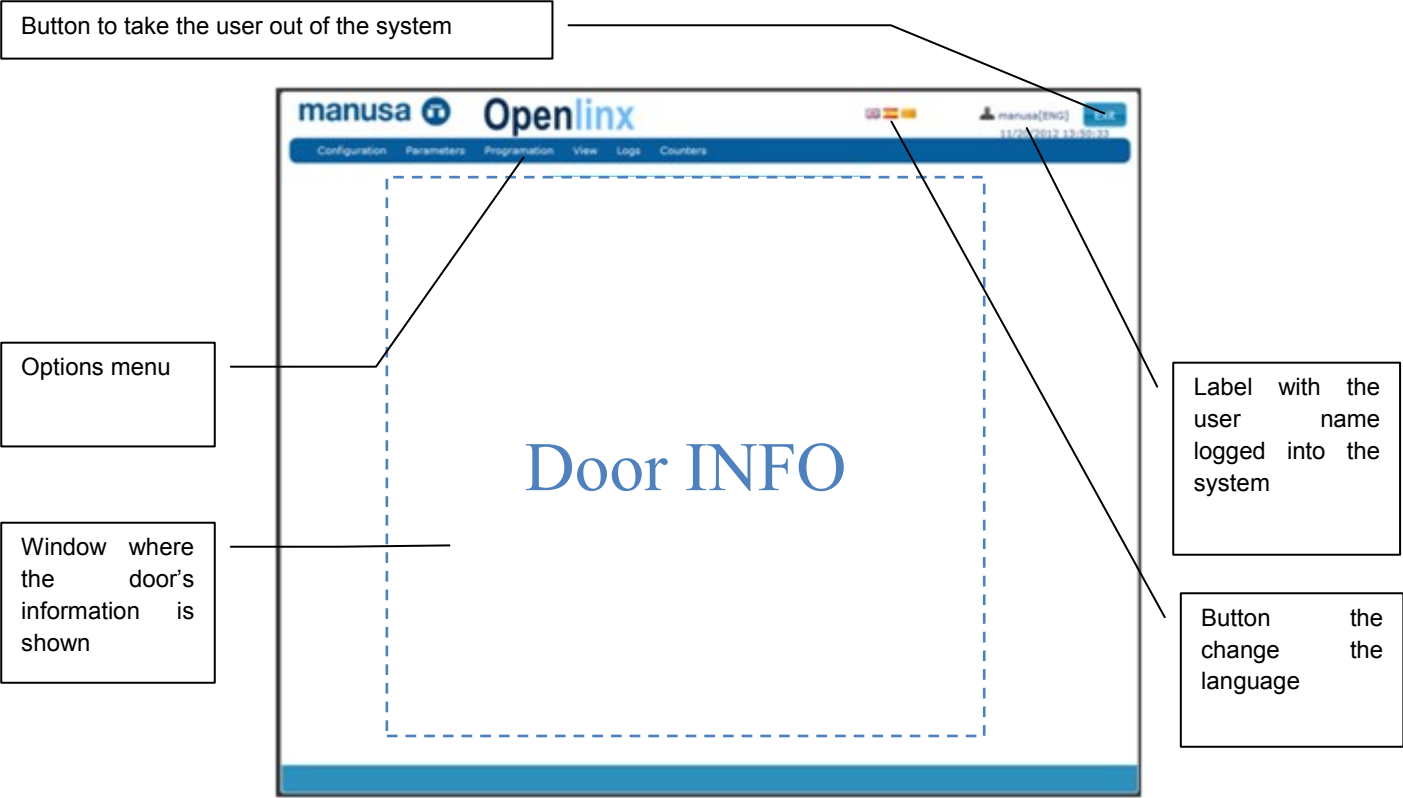
In the same way as with network configuration, the day and time configuration page shows the current date configuration for the Openlinx. If you want to modify it, click any field and the configuration window will appear. After selecting the new date, it will be updated in the system clicking the **SAVE** command.

Also, the device has an NTP client to automatically update the time and date according to local time. To activate this service, you must press any field of the setup screen, click the check-box "NTP On" and select the time zone in which the Openlinx will be installed.

3– USER INTERFACE

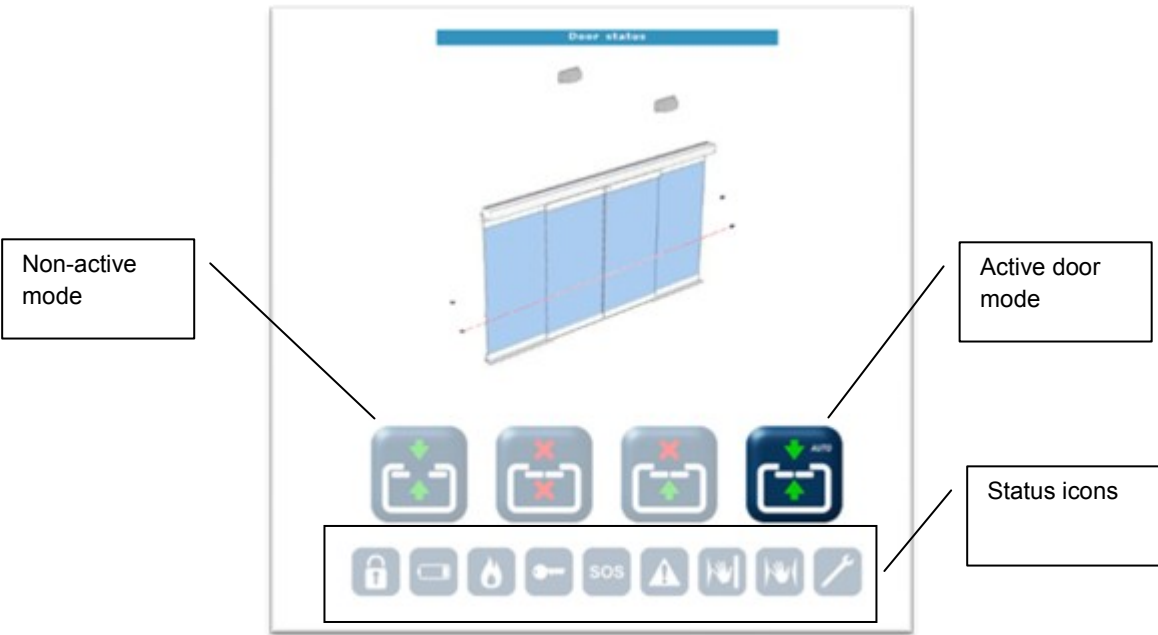
3.1– NAVIGATION ENVIRONMENT

The navigation environment has several information areas as shown below:



3.2 GENERAL VIEW OF THE DOOR

When you are in the user validation page, you enter the main page where you can see the door status. The following information is displayed:



### 3.3 DOOR ICONOGRAPHY

Via the user interface it is also possible to see and change the door mode. The following modes are available:

:

#### RADAR STATUS



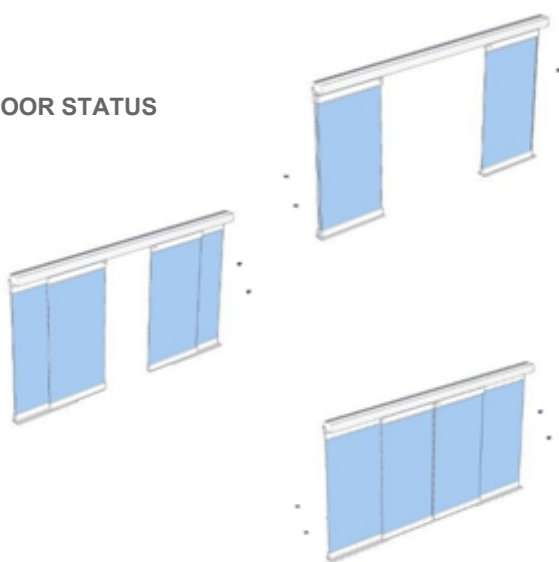
The image shows if both the inside and outside radars are detecting anything. The image with the radar in yellow indicates that there is detection.

#### PHOTOCELL STATUS



The photocells indicate if there is anything that is blocking them. When the photocells have the beams this means that there is no object blocking them.

#### DOOR STATUS



The door status is also shown.  
The following door statuses are shown in the Openlinx:

- Open
- Closed
- In movement or in intermediate position

### 3.4 MODE ICONOGRAPHY

Via the user interface it is also possible to see and change the door mode. The following modes are available:

The door is open



The door is in "auto" mode










The door is in closed mode



The door is in "only exit" mode

### 3.5 DOOR STATUS ICONOGRAPHY

You can also see on the main page the status of the doors via the icons shown below:

<p>The door is receiving the order to "open" from a key.</p> 	<p>The trapping sensor is activated when the doors open. (Ask your technician if s/he has this sensor as it is optional)</p> 
<p>The door requires carrying out a maintenance.</p> 	<p>The door is receiving the fire signal. (This input is not always connected)</p> 
<p>The door's lock is activated.</p> 	<p>The door has a fault. Contact the technical service and look in the logs screen.</p> 
<p>The battery status is low and they need to be replaced.</p> 	<p>The door's emergency input is activated. Contact the technical service.</p> 
<p>The trapping sensor is activated when the doors close.</p> 	

### 4- TIME OR EVENT PROGRAMMING

The Openlix system allows creating events, do that the door can modify its operating mode in a programmed way and on a preestablished date.

On the events programming page we will see a calendar. This calendar will show the programmed events. The already programmed events can be edited, also allowing creating new events clicking the "Add Event" icon .

Button to add events

Repetitive events list

Description	Init Date	Last Date	Time	Mode	Repeat Flag	MON	TUE	WED	THU	FRI	SAT	SUN
Cerrar diario	2012-01-01	2012-12-31	19:45	3	1	✓	✓	✓	✓	✓		

February 2012

Mon	Tue	Wed	Thu	Fri	Sat	Sun
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	1	2	3	4
5	6	7	8	9	10	11

One-time event

Events



## 4.1– ADD A NEW EVENT

If on the previous page you click the add new event option, the following screen will appear:

The data necessary for creating a new event are as follows:

- **Description:** The type of event you want to add is described in this field.
- **Mode:** Defines the mode you want to change to when the event is executed.
- **Start date:** Day you want to execute or start the event if it is periodical.
- **End date:** Date you want to end the event on. This option is only clicked if the event is periodical.
- **Type:** The type of event is defined. If it is an one-time event ("Day"), the action will only be executed on the day we indicate. If it is a periodic event ("Periodic"), we can indicate the periodicity we want it to be repeated with.
- **Day of the week:** if we define a periodical event, here we define the days of the week we want it to be executed on.
- **Repetition:** If this option is selected, the event will be repeated once a year.
- **Time:** The time we want the event to be executed on.

## 4.2– EXAMPLE: HOW TO PROGRAMME A NEW EVENT STEP BY STEP


We want to programme an event for the door to automatically go to "exit mode" at 19:45 in the evening every day in the week except in August when the building will be closed. This event will only be active during this year.

### Step 1

From the main screen press option "add event"

## Step 2


Enter the data of the event on the pop-up screen:

<b>Description</b>	Only exit 1/1-31/12
<b>Mode</b>	Select "exit only" 
<b>Start date</b>	Drop down the calendar and select January 1
<b>End date</b>	Drop down the calendar and select January 1
<b>Type</b>	Select periodical event
<b>Day of the week</b>	Click on the Monday to Friday options.
<b>Repetition</b>	As this event is not going to be repeated annually, disable the option
<b>Time</b>	The time we want the event to be executed on 19:45

After entering the data, click the "Save" button

## Step 3

We are now going to enter the exception of the month of August. As we have done above, click the "add event" option and enter the following data:

<b>Description</b>	Cancel exit only
<b>Mode</b>	Select "Cancel action" 
<b>Start date</b>	Drop down the calendar and select August 1
<b>End date</b>	Drop down the calendar and select August 30
<b>Type</b>	Select periodical event
<b>Day of the week</b>	Click on the Monday to Friday options.
<b>Repetition</b>	As this event is not going to be repeated, disable the option
<b>Time</b>	The time we want the event to be cancelled on 19:45

After entering the data, click the "Save" button

## 5- SYSTEM LOG

In order to inform on the events that occur in the door and in the Openlix, we have a log file. This file show all the necessary information: RTC battery, correct start-up of the system's services, errors occurred, events detected.

The logs are stored cyclically, showing, on the top of the page, the most recent ones. We can refresh the Logs window using the "refresh" button in the middle of the page so that the most recent ones appear



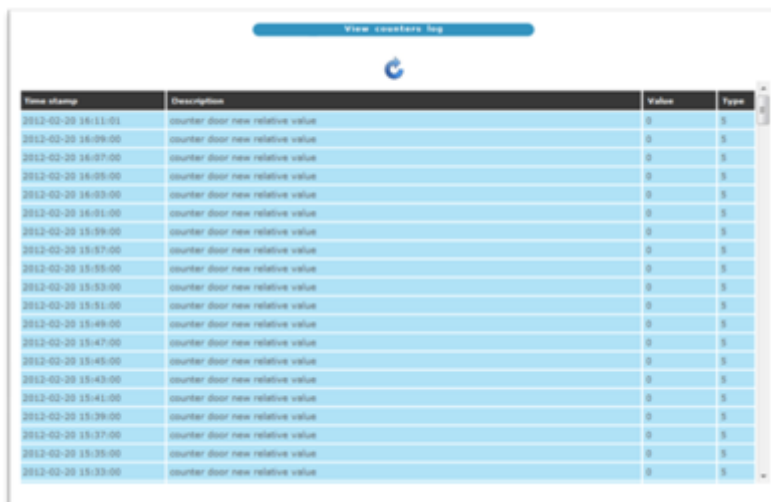
Time stamp	Description	Value	Type
2012-02-14 19:54:53	INFO: I2C door found	1	1
2012-02-14 19:54:53	INFO: created Manusa udp server at socket 3, server 3a8, address 0	1	1
2012-02-14 19:54:51	INFO: RTC battery OK	1	1
2012-02-14 19:54:50	***** STARTING SERVICE *****	1	1
2012-02-14 19:47:54	INFO: I2C door found	1	1
2012-02-14 19:47:54	INFO: created Manusa udp server at socket 3, server 3a8, address 0	1	1
2012-02-14 19:47:52	INFO: RTC battery OK	1	1
2012-02-14 19:47:51	***** STARTING SERVICE *****	1	1
2012-02-14 19:45:29	INFO: EVENT Cerrar starts DONE	1	1
2012-02-14 19:36:59	INFO: Starting modbus tcp service at port 502	1	1
2012-02-14 19:36:58	INFO: I2C door found	1	1
2012-02-14 19:36:57	INFO: RTC battery OK	1	1
2012-02-14 19:36:56	***** STARTING SERVICE *****	1	1
2012-02-14 19:27:43	INFO: created Manusa udp server at socket 3, server 3a8, address 0	1	1
2012-02-14 19:27:42	INFO: I2C door found	1	1
2012-02-14 19:27:41	INFO: RTC battery OK	1	1
2012-02-14 19:27:40	***** STARTING SERVICE *****	1	1
2012-02-14 19:24:03	INFO: I2C door found	1	1
2012-02-14 19:24:03	INFO: Starting modbus tcp service at port 502	1	1
2012-02-14 19:24:02	INFO: RTC battery OK	1	1
2012-02-14 19:24:00	***** STARTING SERVICE *****	1	1
2012-02-14 19:20:28	INFO: EVENT abrir DONE	1	1

## 6- PEOPLE COUNTING

The Openlix also has the people counting function implemented. It carries out a very basic management locally. If you want a more advanced function, with more detailed reports and data ask your distributor.

### 6.1 RELATIVE VALUES

Periodically, the Openlix shows information that the counting sensors read. This log shows, periodically, the relative increases with regard to the last sample taken.



Time stamp	Description	Value	Type
2012-02-20 16:11:01	counter door new relative value	0	5
2012-02-20 16:09:00	counter door new relative value	0	5
2012-02-20 16:07:00	counter door new relative value	0	5
2012-02-20 16:05:00	counter door new relative value	0	5
2012-02-20 16:03:00	counter door new relative value	0	5
2012-02-20 16:01:00	counter door new relative value	0	5
2012-02-20 15:59:00	counter door new relative value	0	5
2012-02-20 15:57:00	counter door new relative value	0	5
2012-02-20 15:55:00	counter door new relative value	0	5
2012-02-20 15:53:00	counter door new relative value	0	5
2012-02-20 15:51:00	counter door new relative value	0	5
2012-02-20 15:49:00	counter door new relative value	0	5
2012-02-20 15:47:00	counter door new relative value	0	5
2012-02-20 15:45:00	counter door new relative value	0	5
2012-02-20 15:43:00	counter door new relative value	0	5
2012-02-20 15:41:00	counter door new relative value	0	5
2012-02-20 15:39:00	counter door new relative value	0	5
2012-02-20 15:37:00	counter door new relative value	0	5
2012-02-20 15:35:00	counter door new relative value	0	5
2012-02-20 15:33:00	counter door new relative value	0	5

### 6.2 ABSOLUTE VALUES

From the report with partial counters, the Openlix also saves a report with the absolute counters. Either via contacts or via an integrated counter that is in the Manusa door.



Time stamp	Description	Value	Type
2012-01-13 09:46:57	Counter GP10 0	0	1
2012-01-13 09:46:58	Counter GP10 1	0	2
2012-01-13 09:46:58	Counter GP10 2	0	3
2012-01-13 09:46:59	Counter GP10 3	0	4
2012-02-20 14:09:00	Counter DOOR	2	5

## 7- REMOTE DOOR CONTROL

### 7.1 CONTROL VIA THE MANULINK

The Openlinx has a protocol implemented to support the Manulink 2.0 programme.

You can remotely control all doors accessible at that moment using the Manulink 2.0. To see more details on the possibilities offered by the Manulink, contact your distributor.



### 7.2- CONTROL VIA MODBUS TCP

The Openlinx also has the ModbusTCP protocol incorporated that allows sharing certain information via this protocol.

With this communications protocol, the integrator will have access to remotely operating the door and know what status it is in at all times. The variables shared via the ModbusTCP are as follows:

No	Variable	Description	Options																								
1	F_Alarm	Faults in the door	<table><tr><th>ANOMALY</th><th>POSSIBLE CAUSE</th><th>SOLUTION</th></tr><tr><td><b>EXCESS CURRENT IN THE MOTOR</b> <b>0001</b> Excess current in the motor</td><td>a. Too much mains voltage. b. Short circuit in the motor or electronic circuit.</td><td>a. Check the mains voltage b. Check resistance of the motors: (70 Ohm)</td></tr><tr><td><b>SOS</b> <b>0002</b> Emergency signal activated</td><td>a. SOS leaves folded back. b. Emergency button activated.</td><td>a. Close leaves fully. Check magnetic detector and the leaf detection magnet. b. Bridge the SOS and COM terminals.</td></tr><tr><td><b>OBST CLOSE</b> <b>0003</b> Blocking when closing</td><td>Obstacle in the closing cycle.</td><td>a. Eliminate obstacle. b. Check eccentric wheels and floor guides. c. Increase the speed and force when you close. d. Restart Ab, AU</td></tr><tr><td><b>EXTERIOR KEY</b> <b>0004</b> Exterior key activated</td><td>The exterior key has not been taken out of the device.</td><td>Remove the key from the exterior key device.</td></tr><tr><td><b>DOOR PARAM MEM</b> <b>0005</b> Parameter memory</td><td>Parameter memory fails.</td><td>a. Carry out self adjustment &gt; remove voltage from the door &gt; power again. b. If the incident occurs again, replace the electronic circuit.</td></tr><tr><td><b>OBST. OPEN</b> <b>0006</b> Blocking when opening</td><td>Obstacle in the opening cycle.</td><td>a. Eliminate obstacle. b. Check eccentric wheels and floor guides. c. Increase the speed and force when you open.</td></tr><tr><td><b>PHOTOCELL</b> <b>0008</b> Infrared barrier</td><td>The infrared barriers are blocked for &gt; 1'.</td><td>a. Clean the optics. b. Align the photocells</td></tr></table>	ANOMALY	POSSIBLE CAUSE	SOLUTION	<b>EXCESS CURRENT IN THE MOTOR</b> <b>0001</b> Excess current in the motor	a. Too much mains voltage. b. Short circuit in the motor or electronic circuit.	a. Check the mains voltage b. Check resistance of the motors: (70 Ohm)	<b>SOS</b> <b>0002</b> Emergency signal activated	a. SOS leaves folded back. b. Emergency button activated.	a. Close leaves fully. Check magnetic detector and the leaf detection magnet. b. Bridge the SOS and COM terminals.	<b>OBST CLOSE</b> <b>0003</b> Blocking when closing	Obstacle in the closing cycle.	a. Eliminate obstacle. b. Check eccentric wheels and floor guides. c. Increase the speed and force when you close. d. Restart Ab, AU	<b>EXTERIOR KEY</b> <b>0004</b> Exterior key activated	The exterior key has not been taken out of the device.	Remove the key from the exterior key device.	<b>DOOR PARAM MEM</b> <b>0005</b> Parameter memory	Parameter memory fails.	a. Carry out self adjustment > remove voltage from the door > power again. b. If the incident occurs again, replace the electronic circuit.	<b>OBST. OPEN</b> <b>0006</b> Blocking when opening	Obstacle in the opening cycle.	a. Eliminate obstacle. b. Check eccentric wheels and floor guides. c. Increase the speed and force when you open.	<b>PHOTOCELL</b> <b>0008</b> Infrared barrier	The infrared barriers are blocked for > 1'.	a. Clean the optics. b. Align the photocells
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	03	Door in “Only-exit” mode																									
	04	Door in reduced opening mode																									
3	TOT_APER	Number of total door openings																									
4	Port_6	Group of digital inputs and outputs	<b>B0 – Photocell 1 input</b> <b>B1 – NA</b> <b>B2 – Result internal battery test (OK)</b> <b>B3 – Key input</b> <b>B4 – NA</b> <b>B5 – Lock position closed</b> <b>B6 – Open leaf position</b> <b>B7 – Closed leaf position</b>																								
5	Port_7	Group of digital inputs and outputs	<b>B0 – NA</b> <b>B1 – Open lock position</b> <b>B2 – Emergency input</b> <b>B3 – NA</b> <b>B4 – NA (Fire input)</b> <b>B5 – NA</b> <b>B6 – Outside radar input</b> <b>B7 – Inside radar input</b>																								

### 7.3 ACCESS FROM OPC

The OPC (OLE for Process Control) is a standard communication in the process control and supervision field. This standard allows different sources of data to send data to the same OPC server, which at the same time may connect to different programmes compatible with this standard. In this way the need for all the programmes to have drivers to dialogue with multiple data sources is eliminated, and you only have to have an OPC driver.

Given that the standard Modbus protocol has been implemented, you can access the Openlinx using any OPC server that has the generic protocol implemented.

## 8 DECLARATION CE OF CONFORMITY



## DECLARATION CE OF CONFORMITY

**Manufacturer:** REDOR SL - MANUSA FACTORY

**Address:** Av. Vía Augusta, 85-87, 6ª planta  
08174 – Sant Cugat del Vallès  
Barcelona, Spain  
Tel 902 321 400  
Fax 902 321 450  
www.manusa.com

**Product:** Advanced communications device to control any Manual automatic door or access barrier system by Manusa.

**Model:** OPENLINX

By this document we declare, under our sole responsibility, that the products listed and referenced comply with the following European Directives:

2006/42/CE: Machinery Directive.  
89/106/CE: Construction Products Directive.  
2004/108/CE: Electromagnetic Compatibility Directive.  
2006/95/CE: Low Voltage Directive.

It has also implemented the following harmonized standards and technical specifications:

UNE EN ISO 12100-1  
UNE EN ISO 12100-2  
UNE-EN ISO 14121-1  
UNE-EN ISO 13849-1  
UNE-EN 61000, 3-2, 3-3, 6-1, 6-3

CE marking is included in the product to indicate conformity with the essential requirements of the directives that apply. This Declaration of Conformity means that the installation and commissioning of the machine has been made in accordance with the installation instructions, operating and maintenance manual.

A handwritten signature in black ink, appearing to read "Josep Mª Guilera".

Josep Mª Guilera  
General Manager

A handwritten signature in black ink, appearing to read "Francesca Martínez".

Francesca Martínez  
Product Standarization

Sant Cugat del Vallès, november of 2012

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**NOTE:** The characteristics indicated in this document are purely informative, and not in any way contractual.

The manufacturer reserves the right to modifications without prior notice.

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