



COMPACT TOUCH | COMPACT BOX

Systems for remote control and management of installations



USER MANUAL [english version]

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1. INTRODUCTION

1.1 GENERAL DESCRIPTION

This document provides you with the necessary information for the installation and initial start-up of the **COMPACT TOUCH/ COMPACT BOX** products. Please follow the instructions carefully for correct installation and initial start-up.

MANUAL VALID FOR COMPACT TOUCH - COMPACT BOX

This manual is valid for **Compact Touch** and **Compact Box** products. The former incorporates a display (**Compact Touch**) as opposed to the blind version (**Compact Box**). With the exception of the display, everything described for Compact Touch is valid for both systems.

1.2 PACKAGE CONTENT

- 1 CPU with 7" screen (Compact Touch version).
- 1 CPU (Compact Box version without display).
- 1 Power supply
- 2 120 Ohm resistors
- 1 User's manual

1.3 GENERAL DESCRIPTION

COMPACT TOUCH is a device for remote monitoring, control and management of industrial plants with Modbus devices. The product incorporates a WEB-based remote user interface configurable from any device with Web browser connected to the LAN or Internet. **COMPACT TOUCH** allows data logging, alarm management and remote access to network and control data. Thanks to its built-in Web server, it is possible to connect remotely from any browser, without the need to install additional software. The user interface is multi-language.

COMPACT TOUCH is a fully upgradeable system in which it will be easy to add new system updates, dictionaries and new functions.

It represents the ideal solution for small and medium-sized installations and is used to manage from 1 to 50 Modbus devices (depending on the license). In addition, **COMPACT TOUCH** has user and group control with different profiles and permissions.

WARNING



**This device is designed for professional use only. It cannot be used as a recorder according to: ITC 3701/2006 RD 889/2006
NOT SUBJECT TO METROLOGICAL CONTROL**

Advertencias de seguridad

WARNING



Read all manuals and documentation related to this device before use. Observe all warnings.

For safe use of the **COMPACT TOUCH**, installers must follow the following safety measures

1.4 TECHNICAL FEATURES AND MODELS

COMPACT TOUCH has a 7" LCD touch panel. You can work directly on the screen or via web on any operating system using Chrome, Safari, Firefox, Mozilla and Opera browsers through its ethernet port (RJ-45). The Web is adapted for viewing on smartphones or tablets.

ITEM	SYMBOL	MIN	MAX	UNIT
STORAGE TEMPERATURE	TSTG	-30	80	°C
OPERATING TEMPERATURE	TOPR	-20	70	°C



WARNING

Do not install this device in places that are excessively humid, excessively hot, or with excessive amounts of water, dust or soot. This could result in product failure, fire, electrical shock or deterioration of some parts of the device.

Features of 7" device (touch screen version: Compact Touch)

ITEM	SPECIFICATIONS	UNIT
SCREEN SIZE	7"	Diagonal
SCREEN RESOLUTION	800 (H) x 480 (V)	Pixels
DOT SIZE	63.5 x 190.5	um
ACTIVE AREA	152.4 (H) x 91.44 (V)	mm
EXTERNAL DIMENSIONS	165 (W) x 104.44 (H) x 6.59 (D)	
PIXEL CONFIGURATION	RGB Vertical lines	—
PIXEL SIZE	190.5 x 190.5	um
COLOR DEPTH	262,144	colors
LCD TYPE	TN	—
INTERFACE TYPE	TTL	—
SURFACE TREATMENT	7% touch panel	—
DIRECTION OF VIEW (GRAY INVERSION)	6 o'clock	

ITEM	SYMBOL	VALUE	UNIT
BRIGHTNESS	B	300	cd/m²
CONTRAST RATIO	CR	400	—

1.5 SYSTEM ACCESS

By default the system is delivered configured on IP 192.168.1.14.

User: admin

Password: 1

You can access via any supported Web browser, or directly using the device's touch screen on **TOUCH** models.

2. CONNECTIONS AND ASSEMBLY

2.1 POWER SUPPLY

The equipment is powered by low voltage direct current. A 100-240V AC to 12V 3A DC voltage source is supplied. Properly connect the power supply to the connector marked DC-IN.

2.2 INTERNAL MEMORY AND MICRO SD

COMPACT TOUCH has a non-volatile internal memory to store mainly the operating system, the main program and web services among other programs.

In addition, the unit manages an external Micro SD memory.

In the usual configuration, the internal memory contains a database with all the device configurations, the instrument network, users, and all the data related to the alarms. The SD memory is used only for data logging.

In case of malfunction of the external memory, the system will generate an alarm and will continue to operate normally except that no measurement data (probes, relays, status) will be recorded, but the alarms of all devices will be managed.

Make sure that the micro SD memory is correctly inserted in the indicated place. Excessive force on this memory could damage it. It can only be inserted in one position.

If you need a replacement micro SD memory, please consult your dealer.

2.3 CONNECTION TO THE ETHERNET NETWORK

For the **COMPACT TOUCH** device to connect to the LAN or the Internet, an Ethernet cable must be connected to the RJ-45 connector labeled LAN.



Go to the **"Configuration > System Setup > Network Settings"** menu.

Gestionar la configuración de la red

ADVERTENCIA: Por favor, antes de cambiar la IP asegúrese de que está libre y no es usada por ningún otro equipo de la red.

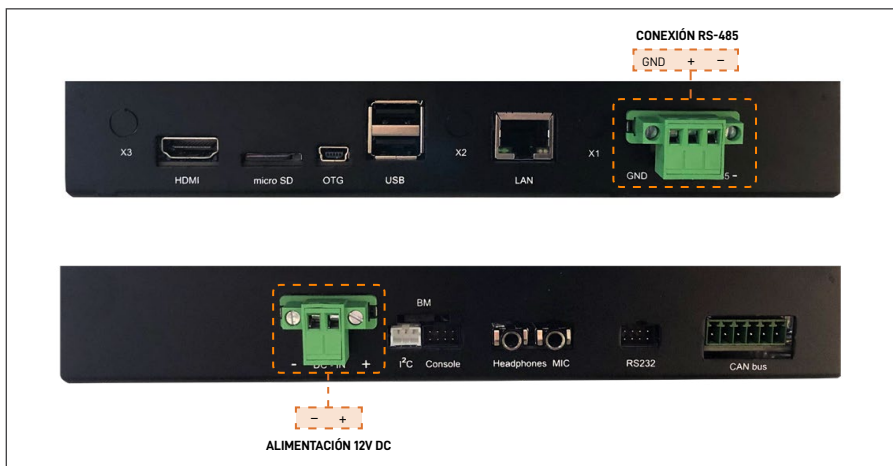
Dirección IP:	<input type="text" value="192.168.1.172"/>
Mascara de red:	<input type="text" value="255.255.255.0"/>
Puerta de enlace:	<input type="text" value="192.168.1.253"/>
DNS:	<input type="text" value="8.8.8.8"/>

For a local connection, the IP Address and Netmask values must be configured. If an Internet connection is required, the "gateway" and DNS must be configured.

NOTE: This data is provided by the IT Department that manages the network where the device is installed.

2.4 CONNECTION

Identify the elements indicated in the diagram below, for their correct connection, following the instructions below.



3. INSTALLATION AND CONFIGURATION OF THE INSTRUMENTS

3.1 RS-485 CONNECTION

The RS-485 line was based on three terminals: a positive terminal (+), a negative terminal (-) and a voltage reference terminal (GND). To connect devices compatible with the COMPACT TOUCH remote management system, they must be equipped with RS-485 connection terminals (+, -, GND) or a TTL connection to be connected to the 485 network by means of a suitable line adapter (consult the distributor of the devices).

Important considerations:

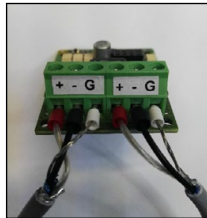
- The RS-485 serial line must reach all instruments wherever they are installed.
- Make the connection in series (the cable must reach one instrument and from there go to the next) using a cable with PVC sheath, 2 conductors plus shield, 20 AWG, rated capacity between conductors 89pF, rated capacity between a conductor and the shield 161pF.

- Make sure that the polarities of the cables are correct before screwing them to the devices.
- Avoid loops or shunts.
- A 120 ohm resistor should be installed between the + and - poles at the end of the line at the last device.
- Keep the communication cable away from power wiring and electromagnetic sources to avoid possible interference.
- Under ideal conditions and for transmission speeds of 9600baud, the approximate maximum length of RS-485 cabling is 1200 meters. Longer distances may cause signal reflection and consequently errors in data transmission.

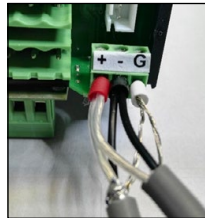
**WARNING**

Do not connect the GND terminal of the RS485 line to ground.

In the following examples, it is shown how to make the wiring, so that it passes from one instrument to another in the network, in each device the RS-485 wiring connection is made (cable coming from one instrument, and going out to the next one). In cases where there is no double terminal block, connect both cables to the single terminal block (example 2). In all cases, you must respect the same polarity in all the instruments.



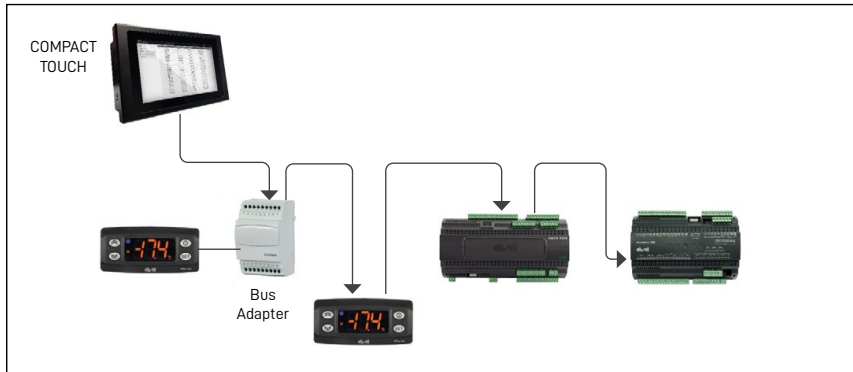
Example 1: Double terminal block



Example 2: Single terminal block

Remember to install a 120 ohm resistor between the + and - poles at the end of the line in the last device.

3.2 WIRING DIAGRAM



By default the system is configured to manage a network with the following parameters:

Speed: 9600 baud // Parity: Even // Stop bits: 1

All instruments must be configured with the same communication parameters, except for the address, which must be unique for each device in the network.

4. INITIAL CONFIGURATION – QUICK START

4.1 LOGIN PAGE

From the local screen or through remote access (see remote access section), we will identify ourselves in the system to interact with the system.



On the access page you can select the language using the flags that appear and the access login.

To access the **COMPACT TOUCH** system, you must enter a user name and password. Once entered, press the "Start" button. Different user profiles can be created to access the system.

The default access parameters are: user (admin) and password (1).

4.2 SCROLLING THROUGH THE MENUS



From the menu bar, you can access all the system modules, both for display and for parameterization or configuration.

The alarm icon lights up if an alarm is active in the system. By clicking on the icon, you can access the active/historical alarm module.

The On/Off indicator indicates the status of data acquisition and management (green active/red inactive).

By clicking on the icon, you can access the active/historical alarms module. The On/Off indicator indicates the status of data acquisition and management (green active/red inactive).

The system date/time is then displayed and an icon to log out and return to the login screen.

4.3 INITIAL SETUP



Please note that the COMPACT TOUCH system works only with Modbus devices. Each device model requires a specific driver for that instrument.

To verify instrument compatibility, contact technical support. The following are the basic steps recommended for the correct start-up of the system.

System time setting (Configuration -> System Setup -> System Setup -> System time and date)

Plant name (Configuration -> System Setup -> Plant information)

Logging period (Configuration -> System Setup -> Data acquisition)

Ethernet network configuration (Configuration -> System Setup -> Network connection)

RS-485 network instrument acknowledgement (Configuration -> Instrument network -> Acknowledgement)

Alarm management (Configuration -> Instrument network setup -> Alarm setup)

4.3.1 SYSTEM TIME SETUP.

MENU: (Configuration -> System Setup -> System Time and Date)

Gestionar hora del sistema

Seleccionar fecha local

Zona horaria

Europe/Madrid

Día

29

Mes

Mayo

Año

2018

Hora:

18

:

6

Cambiar hora

Ocultar info avanzada

Local time: Tue 2018-05-29 18:06:02 CEST

Universal time: Tue 2018-05-29 16:06:02 UTC

RTC time: Tue 2018-05-29 16:06:06

Time zone: Etc/UTC (CEST, +0200)

NTP enabled: no

NTP synchronized: no

RTC in local TZ: no

DST active: yes

Last DST change: DST began at

Sun 2018-03-25 01:59:59 CET

Sun 2018-03-25 03:00:00 CEST

Next DST change: DST ends (the clock jumps one hour backwards) at

Sun 2018-10-28 02:59:59 CEST

Sun 2018-10-28 02:00:00 CET

Select the time zone corresponding to your region and set the time correctly. Information about upcoming automated date/time changes can be found in the advanced information.

4.3.2 NAME OF THE FACILITY

MENU: (Configuration -> System Setup -> Facility Information).

The **facility identifier** is used to notify alarms by mail and Twin call center. This code is also recorded on the micro SD data card for internal system use. Fill in the rest of the data and press Save.

Gestionar la información de la planta

Identificador de la planta:

C2535

Descripción de la planta:

ALOM DIVAD

Localización:

Madrid

Empresa:

FRESH MARKET

Información extra:

C/ del Mercad5

Guardar

4.3.3 REGISTRATION PERIOD

MENU: (Configuration -> System Setup -> Data Acquisition)

Gestionar la adquisición de datos

Intervalo de registro

15

minutos

Reactivar adquisición de datos automáticamente

☐

Reactivar tras

1

horas

Guardar

From this form, you can set the logging interval for synchronous data (temperature, pressure, voltage, consumption, etc.).

Asynchronous data (digital data such as e.g. compressor status, defrost status, micro-door etc.) are logged when they change.

If the user inadvertently stops data logging for more than a specified time, the automatic reactivation function can be used by setting the corresponding field.

4.3.4 ETHERNET NETWORK CONFIGURATION

MENU: (Configuration -> System Setup -> Network Connection)

Gestionar la configuración de la red

ADVERTENCIA: Por favor, antes de cambiar la IP asegúrese de que está libre y no es usada por ningún otro equipo de la red.

Dirección IP:	<input type="text" value="172.16.3.3"/>
Máscara de red:	<input type="text" value="255.255.252.0"/>
Puerta de enlace:	<input type="text" value="172.16.1.251"/>
DNS:	<input type="text" value="8.8.8.8"/>
Puerto:	<input type="text" value="80"/>

For a local connection, the IP Address and Netmask values must be configured.

If you wish to manage the system over the Internet, or if you are going to use the alarms via email, the gateway and DNS must be configured appropriately. The web port can also be configured.

NOTE: Consult the center's IT department for proper configuration.

4.3.5 RS-485 NETWORK INSTRUMENT RECOGNITION

By default, the on-board RS-485 network is configured with these parameters:

Speed: 9600, bits: 8, flow: 0, parity: Even

In case you exceptionally need to modify this configuration, you can change the parameters from the following menu:

MENU: (Configuration -> System -> Configure physical interface)

Configuración de interfaz física

Velocidad (bits por segundo)

9600

Tamaño del dato (bits)

8

Habilitado

☒

Control de flujo

0

ID (No editable)

1

Etiqueta

RS485

Nombre (No editable)

/dev/ttymx2

Paridad

even

Fecha de creación (No editable)

08-03-2018 06:48

Tipo

Modbus RTU

No se puede eliminar una interfaz si existen instrumentos activos que la usen.

Eliminar:

Guardar cambios

The system incorporates a module for automatic recognition of elements connected to the RS-485 network. Within the RS-485 network, each instrument is identified by a unique number within the network (refer to the manual of each instrument to assign it the identification (Modbus address). This identification cannot be repeated in two instruments connected in the same network. You must also verify that the speed, bit, and parity parameters of the instruments on the network match those specified on the physical interface, so that the Compact Touch can collect the data properly.

MENU: (Configuration -> Instrument network -> Recognition)

Reconocimiento de red

Puerto serie:

RS485

Intervalo de direcciones:

Inicio

1

Fin

255

Añadir rango de búsqueda

Selecciona los drivers

☒ De/Seleccionar todos

☒ Eliwell

☒ ColdFace

☒ EWCM

☒ FreeSmart

☒ ID985Modbus

☒ IDPlus

☒ IDPlus961

☒ IDPlus974

☒ RTX

☒ Televisin

☒ Schneider

Buscar

To speed up the search process, it is recommended to search only in the address range where you have instruments assigned to you.

In addition, choosing only the necessary drivers (those of the instruments on the network) will also reduce the time spent by the system in interrogating the devices for 'auto-recognition'.

Once the process is finished, you can modify the names of the instruments, as well as the names of the individual resources.

The database will save only those resources indicated in this process, therefore, if you later modify the instrument and add resources, or replace the instrument with another one, you will have to perform a new recognition.

In this process it is indicated by color coding if an instrument/resource is new, modified or if the resource is no longer available.

■ Green = New ■ Purple = Replaced ■ Grey = Unchanged

4.3.6 NAMING AND CATEGORY ASSIGNMENT

The categories must be created in order to be able to assign them later. Follow the steps below:

MENU: (Configuration -> Instrument network -> Manage categories)

From this form, you can create custom categories, and assign predefined icons, which allow you to classify the network elements:



ID	Etiqueta	Imagen	Orden	Acciones
4	Energía	energía.png	5	[Edit] [Delete]
1	Refrigeración	temperatura.png	1	[Edit] [Delete]
3	Módulos	Pro-categoría	3	[Edit] [Delete]
2	Controlador	idm.png	2	[Edit] [Delete]

Using the edit (pencil) or delete (trash can) icon you can manage the categories. These classifications are used to sort the instruments and make them easier to use.

MENU: (Configuration -> Instrument network -> Configure instruments)

Assign from this screen the names of the instruments, their classification and also the name of the resources of each instrument by clicking on the first icon to 'display' the content.

COMPACT TOUCH					30/5/2018 11:39	
Datos Alarmas Instrumentos Configuración						
ID985Modbus	Dir_1_3 (0:3)	✓	MURALES	MURAL BEBIDAS		
ID985Modbus	Dir_1_4 (0:4)	✓	MURALES	MURAL LACTEOS 1		
ID985Modbus	Dir_1_5 (0:5)	✓	MURALES	MURAL LACTEOS 2		
ID985Modbus	Dir_1_6 (0:6)	✓	MURALES	MURAL LACTEOS 3		
ID985Modbus	Dir_1_7 (0:7)	✓	MURALES	SEMMURAL 1		
ID985Modbus	Dir_1_8 (0:8)	✓	MURALES	SEMMURAL 2		
ID985Modbus	Dir_1_9 (0:9)	✓	MURALES	SEMMURAL 3		
ID985Modbus	Dir_1_10 (0:10)	✓	MURALES	SEMMURAL 4		
ID985Modbus	Dir_1_11 (0:11)	✓	MURALES	SEMMURAL 5		
ID985Modbus	Dir_1_12 (0:12)	✓	MURALES	SEMMURAL 6		
ID985Modbus	Dir_1_13 (0:13)	✓	MURALES	SEMMURAL 7		
ID985Modbus	Dir_1_16 (1:0)	✓	ARMARIOS CONGELADO	ARMARIO CONGELADOS 1		



WARNING

For security reasons, the only way to delete a device is through this form, by pressing the button with the trash can icon and the "Apply changes" button.

The data are saved by means of an identifier consisting of the Modbus address of the instrument and the resource ID.

Deleting an instrument does not delete the saved data.

If you recognize a deleted instrument again, all previous data will be merged with the new data.

If you replace an instrument with another model where part of the resources are matched (probe 1, defrost status etc.), then the matched resources will be merged in the database, allowing graphing of one resource (e.g. Probe 1) regardless of whether they are two different models.

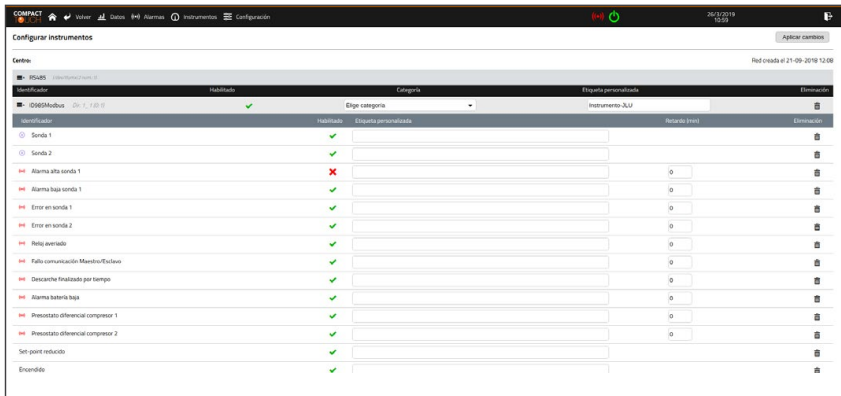


WARNING

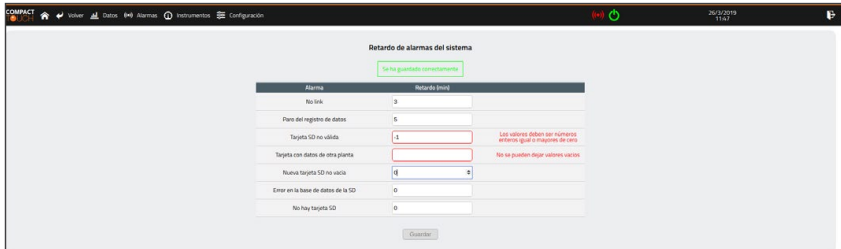
This can only be guaranteed if the instrument address is maintained and the internal resource id is the same for both instruments.

4.3.7 ALARM DELAY

In the resource list, alarm type resources can be specified a delay in minutes.



MENU: (Configuration -> Configure Alarms -> System Alarm Delays)



4.3.8 ALARM MANAGEMENT

Compact Touch allows you to notify alarms by e-mail or by Twin protocol to the Call Center, if you are going to use the e-mail service, you must configure an account from which the e-mails will be sent to the different recipients.

MENU: (Configuration -> System Setup -> Email Server)

Configurar el servidor de correo electrónico

Servidor SMTP:

Puerto del servidor:

Encriptación:

Usuario:

Contraseña del usuario:

Tipo de mensaje por defecto:

Enviar test a:

Check with the IT Department for the details of the mail server from which e-mails will be sent. After entering this information, you can perform a test run by specifying an e-mail address and clicking on the "Test configuration" button.

MENU: (Configuration -> Configure Alarms -> Manage recipients)

From this screen you can create all the recipients that will later be used to receive alarms.

In the case of email, you can select HTML or CSV type. Choose HTML (formatted email) unless you require a simple email for other reasons.

LIFE TEST

This is a periodic control message to ensure that the installation is being monitored.

In the case of email recipients, we can specify whether or not they will receive life tests, from what time and at what interval. All Twin recipients will receive a life test every hour.

MENU: (Configuration -> Configure Alarms -> Manage Actions)

Actions group one or several recipients or commands.

For example, you can create an action <Email Sat> whose content is the SAT users' mails. Even if there is only one mail recipient, you will have to create at least one action containing that recipient.

MENU: (Configuration -> Configure Alarms -> Manage schedules)

Configure different time slots for email sending which you can then use to configure the sending (coming soon).

There is a preloaded time slot called "Any time".

MENU: (Configuration -> Configure Alarms -> Alarm Conditions)

The conditions allow you to decide what actions to trigger in case of different alarms and times when they occur.

You can select the "All alarms" and "All instruments" checkboxes, so that even if you later add more devices to the network it will not be necessary to add the control to the list to be managed.

Guardar				
Alarmas	Instrumentos	Horarios	Ejecutar al...	Acciones/Comandos
<input checked="" type="checkbox"/> Todas las alarmas	<input checked="" type="checkbox"/> Todos los instrumentos	<input checked="" type="checkbox"/> Cualquier momento	<input checked="" type="checkbox"/> Al inicio	<input checked="" type="checkbox"/> Notificaciones Email
<input type="checkbox"/> Sin conexión	<input type="checkbox"/> MURAL FRUTA		<input checked="" type="checkbox"/> Al finalizar	<input checked="" type="checkbox"/> Notificaciones Twin
<input type="checkbox"/> Alarma alta sonda 1	<input type="checkbox"/> SEMIMURAL 4			
<input type="checkbox"/> Presostato diferencial compresor 1	<input type="checkbox"/> SEMIMURAL 5			
<input type="checkbox"/> Presostato diferencial compresor 2	<input type="checkbox"/> SEMIMURAL 6			
<input type="checkbox"/> Alarma hombre encendido	<input type="checkbox"/> SEMIMURAL 7			
<input type="checkbox"/> Alarma baja sonda 1	<input type="checkbox"/> ARMARIO CONGELADOS 1			
<input type="checkbox"/> Error en sonda 1	<input type="checkbox"/> ARMARIO CONGELADOR 2			
<input type="checkbox"/> Error en sonda 2	<input type="checkbox"/> ARMARIO CONGELADOS 3			
<input type="checkbox"/> Alarma puerta abierta	<input type="checkbox"/> MURAL FRUTA 2			

4.3.9 USER MANAGEMENT

MENU: (Configuration -> Configure System -> Manage users)

The system allows you to create different users to manage the equipment. Certain actions on the system are registered with the user code.

It is possible to open different sessions with the same user code.

It is possible to configure to which user group he/she will belong:

- **Administrator**: Allows complete system configuration.
- **Basic**: Read only. It does not allow writing parameters, executing commands or accessing configuration.

Note: The email on this screen is used only for password recovery.

Crear o editar un usuario

Nombre

Descripción

Email

Idioma

Español

Página de inicio

Datos en tiempo real

Grupo de usuarios

Administradores

Contraseña

Confirma la contraseña

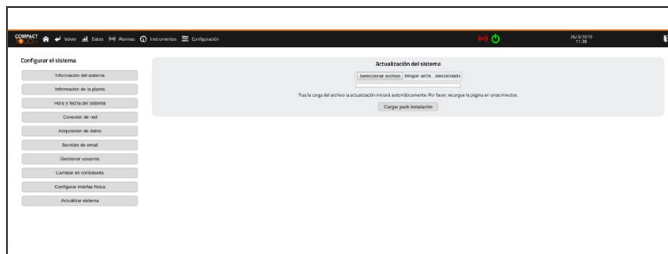
Guardar

MENU: (Configuration -> System Setup -> Change Password)

It only changes the password of the logged-in user.

4.3.10 SYSTEM UPDATE

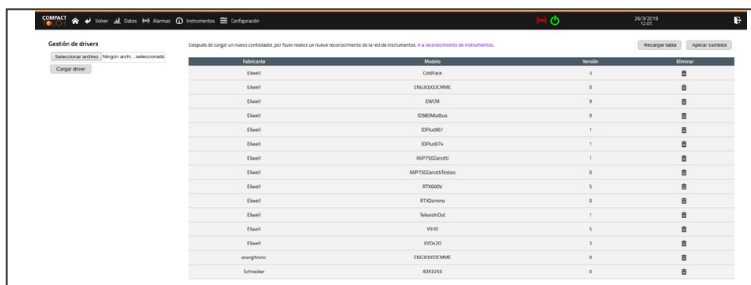
This is done by means of a **“.kev”** file. The update file can be uploaded from a remote web connection. The system will automatically reboot at the end of the upload and you will have to restart the session.



4.4 DRIVER MANAGEMENT

MENU: (Configuration -> Instrument network -> Driver management)

From local, on screen, only the installed drivers can be consulted and deleted. When we connect from PC, tablet or smartphone, the option to add new drivers appears. The drivers are files with the extension ".vin". After adding a new driver or updating, a new recognition has to be performed to load it and the new version appears.



5. PROGRAM OPERATION

5.1 ACCESS FROM LOCAL SCREEN AND FROM WEB BROWSER

The **COMPACT TOUCH** system offers an advanced user interface accessible with a compatible web browser (Chrome, Opera, Firefox, Edge, Safari), for data analysis and full control of the system's functions, as if from the local display.

When accessed from a smartphone, the page automatically adapts to provide a better user experience.

To access the WEB interface, the **COMPACT TOUCH** system must be turned on and connected to the ethernet network.

Next, the web browser you have selected (Chrome, Edge, Firefox, Opera, etc.) will open and you will enter the **COMPACT TOUCH** system address that you have given manually from the screen. If a web port other than 80 was specified you will have to specify it when entering the address, for example: **http:// 192.168.1.14:8080**.

The default network configuration parameters are as follows:

- IP: **192.168.1.14**
- Mask: **255.255.252.0**

For the connection between your PC, Tablet, mobile, etc., with the **COMPACT TOUCH** system, it must have a compatible IP address and Mask between them.

For more information contact your network administrator.

5.2 REAL-TIME DATA

From the **menu data -> real time data**, you can access the screen that shows the readings collected from each device in the network.

The data is automatically updated every 10 seconds.

By clicking on the information icon of each instrument, you will obtain model, address and other auxiliary technical information.

Digital variables (compressor, defrost, door...) are indicated by a green icon when they are active.

If it is not possible to read the information of an instrument, because it is faulty, switched off or because of a problem in the wiring, the indication **NO LINK** will be displayed on its resources.

REFRIGERADOS	
CÁMARA REFRIGERADOS 1 <ul style="list-style-type: none"> Sonda 1: 26.1 °C Sonda 2: 27.6 °C Set-point reducido: 30 Enemido: 30 Desuiche 1: 30 Compresor 1: 30 Alarma activa: 30 Zumbador: 30 Ventiladores: 30 	CÁMARA REFRIGERADOS 2 <ul style="list-style-type: none"> Sonda 1: 26.2 °C Sonda 2: 27 °C Set-point reducido: 30 Enemido: 30 Desuiche 1: 30 Compresor 1: 30 Alarma activa: 30 Zumbador: 30 Ventiladores: 30

CONGELADOS					
ISLA PESCADO <ul style="list-style-type: none"> Sonda 1: 27 °C Sonda 2: 28.8 °C Set-point reducido: 30 Enemido: 30 Desuiche 1: 30 Compresor 1: 30 Alarma activa: 30 Zumbador: 30 Ventiladores: 30 	ISLA CORNE <ul style="list-style-type: none"> Sonda 1: 26.9 °C Enemido: 30 Desuiche 1: 30 Compresor 1: 30 Alarma activa: 30 Ventiladores: 30 	ISLA HELADOS <ul style="list-style-type: none"> Sonda 1: 23.9 °C Sonda 2: 22.7 °C Set-point reducido: 30 Enemido: 30 Desuiche 1: 30 Compresor 1: 30 Alarma activa: 30 Zumbador: 30 Ventiladores: 30 	ISLA PIZZAS <ul style="list-style-type: none"> Sonda 1: 26.3 °C Sonda 2: 26.9 °C Set-point reducido: 30 Enemido: 30 Desuiche 1: 30 Compresor 1: 30 Alarma activa: 30 Zumbador: 30 Ventiladores: 30 	ISLA VENDERAS <ul style="list-style-type: none"> Sonda 1: 25 °C Sonda 2: 26.7 °C Set-point reducido: 30 Enemido: 30 Desuiche 1: 30 Compresor 1: 30 Alarma activa: 30 Ventiladores: 30 	CÁMARA CONGELADOS <ul style="list-style-type: none"> Sonda (instalación): 16.7 °C Sonda (regulación): 16.7 °C Temp. recalentamiento válvula: 5 °C Presión descarga válvula: 0 bar Sonda de regulación 1: 16.7 °C Sonda de alarma de temperatura 1: 16.7 °C Sonda de desuiche 1: 17.8 °C Sonda H2OCCP: 5 °C Temp. de saturación: -6 °C

If the instrument resources have a classification you can filter their display. Only those resources that match all applied filters will be displayed.

NOTE : Not all instruments have resource classification.

Real-time graphics :

Clicking on the resource names opens a graph that is updated periodically.

5.3 HISTORICAL DATA

From the menu **data -> historical data** , you can access a form to choose which values you want to obtain and in which period of time.

With the options view table and view graph you can select the desired type of report.



From the graph module, you will also get statistics of the readings. Maximum, minimum and average, for the selected period.

5.4 ALARMS MENU

From the Alarms menu, you can access a form to choose whether you want to view active alarms or alarms that have already ended (historical), as well as the search period.

For each alarm, the instrument on which it occurred and the start and end date are indicated; if any action has been taken on the alarm (sending an e-mail or twin), you can obtain data on the sending by clicking on the information button of each alarm line.

If the action could not be completed immediately, a retry counter indicates how many times the sending attempt was made. One attempt is made every minute. .



We can select a date range to display the alarm history. We also have the option of displaying all the alarms without applying the delays.

5.5 COMMANDS AND PARAMETERS

Using the menu **Instruments -> parameters**, you can read and modify parameters of the instruments in the network.

Select the instrument, and from the list of parameters mark the ones you want to read or modify.

Using the **Export to file** and **Load from file** buttons, you can save the parameters to an external file for later re-application, or apply them to another device.

NOTE : The Export/Load function is not available from the local display. It needs a connection from an external device via the Web.

Please note that some parameters may require a restart of the device to be activated, consult the device distributor or refer to the manual.

If the device parameters are sorted you can filter the display of the parameters. Only parameters that contain the applied filters will be displayed. You can also search for parameters by text.

NOTE : Not all instruments have parameter classification.

Via the menu **Instruments -> Commands**, you can send commands to the instruments in the network. Select the command, the instruments on which you want to execute the command and press execute.

If the command is executed properly you will receive a confirmation. Examples of commands are: **Activate defrost manually**, **Silence Alarms**, **Light relay on/off**, etc.

6. GENERAL INFORMATION

EQUIPMENT AND LICENSES

This system is composed of:

- a physical machine running a **Debian** operating system (Linux ICNEXUS-Debian 3.0.35-2666-gbdde708).

And it is programmed with:

- **QT 5.3** kernel programming environment, which is based on the LGPL-2.1 license.
- Web server: **nginx** (BSD license)
- The web environment is realized with **PHP 5.6** (PHP license 3.01).
- For client-side screen layout: JavaScript, HTML5, CSS3, SASS
- Generic JavaScript library: **jQuery** (MIT license)
- Graphical JavaScript library: **Chartjs** (MIT license)
- Database: **PostgreSQL 9.4** (PostgreSQL license)
- You can find more details about the licenses from **Configuration -> System -> System info -> Software licenses. System information -> Software licenses used.**

7. LIABILITY AND RESIDUAL RISKS

The company is not liable for damages caused by:

- installation and use other than those foreseen and, in particular, not in conformity with the safety requirements of the standards in force and/or indicated in this document;
- use on equipment that does not guarantee adequate protection against electric shock, water and dust in the actual installation conditions;
- use on equipment that allows access to dangerous components without the use of tools;
- inexperienced handling and/or alteration of the product;
- installation and use in equipment that does not comply with the standards and regulations in force.

7.1 EXEMPTION FROM LIABILITY

The greatest care has been taken in the preparation of this documentation; however, no liability is assumed for the use of this documentation. The same applies to any person or company involved in the creation of this manual. The right is reserved to make any aesthetic or functional modification to it at any time and without prior notice.

MANUAL UPDATES

To ensure that you have the latest version of this manual, you can find it updated and downloadable at any time on our website **www.eliwell.es**.



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