

EASY2CHECK User Manual





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1. EASY2CHECK

1.1 FEATURES

This guide provides all the information needed to configure the product Easy2Check (E2C) and for the use in combination with the web application Easy2App. The guide is intended for installers of the E2C and for the endusers of the application. The configuration requires a basic knowledge of LAN and TCP/IP protocol.

Easy2Check is a device to connect to the LAN and internet the heating devices equipped with control boards produced by TiEmme elettronica. Used in combination with the Easy2App allows the end user to perform management operations and remote control.

The main product features are:

- Fully configurable via web interface;
- DNS forwarding services support. For the achievement of the product also in the case of dynamic public IP;
- Remote and logging session via System evolution 4.0;
- Sending e-mail service to request assistance with configurable addresses;
- Remote setting of the chrono via smartphone, PC or tablet;
- Power on, power off, unblock of the device remotely via smartphone, PC or tablet;
- Remote monitoring of the system status via smartphone, PC or tablet;
- Report of failure and anomalies;
- Automatic update from the internet;
- Possibility to customize the main graphics elements;
- RS232 and RS485 serial communication port;

1.1.1 HARDWARE COMPONENTS

Components Included

The following components are included with the product:

- Easy2Chek device;
- External power supply;
- Connection cable with plug RJ11 for RS232 communication port;

Components not Included

- 1 Ethernet cable CAT5 10/100/1000 Base-T for Network connection;
- 1 Ethernet cable CAT5 10/100/1000 Base-T for connection to the control board via RS485 serial communication port

1.1.2 REQUIREMENTS

The requirements in terms of SW required to access to the configuration pages and the web app are:

Web browser:

- Recommended: Mozilla Firefox, Google Chrome and Apple Safari in all versions;
- Internet Explorer From 11.0 version.

Web app OS

- iOS 6.0 version and higher;
- Android 4.0 version and higher



1.1.3 DIMENSIONS AND CLEARANCES

Side View





Side View



Top View







1.1.4 DATA SHEET

ELECTRICAL SPECIFICATIONS				
Power Supply	12 - 24Vdc/ac +/-10%			
Installation category	Class II			
Maximum consumption	2.5W			

MECHANICAL SPECIFICATIONS					
Operating temperature range	From -10°C to +55°C				
Storage temperature range	From -25°C to +65°C				
Dimensions	90x71x62 mm (HxLxP) – DIN				
Installation typology	DIN rail 35mm (EN60715)				
Degree of protection	IP20 (EN60529)				
Connections	 ETH: Ethernet connection Serial BUS: serial RS232/485 connection, with opto-isolated RS485 				

RS485/232 SECTION	
Reference standard	TIA/EIA-485
Baudrate	Min. 1200bps – Max. 115200bps
Max. number of devices	64
Device data acquisition	Operation carried out according to architecture Master / Slave
Termination resistance	On board 120Ω

DATALOGGING					
Mass storage	Compact Flash 128Mbyte				
Schedule report generation	Daily / Monthly / Bi-Monthly / Quarterly / Quarterly / Half-yearly / Annual				

USER INTERFACE	
Led Power	Operation status
HTTP	Multilanguage web server for configuration and data consultation

1.1.5 LED

Led	Colore	Stato	Indicazione
POWER	Green	On	Easy2Check is ON and ready
		Off	Absence of anomalies
ERROR	Red	On	Blocked device
		1 blink every 2 second	No communication with the control board
ТХ	Green	On	Data transmission to the control board
RX	Green	On	Data receiving from the control board
		Off	No ethernet and network connection
		On	Internet connection ok Network connection ok
ETH LINK	Yellow	1 blink every 1 second	Internet connection absent Network connection ok
		1 blink every 5 second	Internet connection ok Network connection ok Remote control active



1.2 Assign IP ADDRESS

The assignment of an IP address is the first step for configuring and manage a new E2C. To access to the web configuration, you must connect the E2C to a PC/Mac via ethernet port.

- 1. Find network settings of the destination LAN, such as:
 - Range of IP addresses available;
 - Presence of a DHCP service;
 - Subnet mask of the network;
 - Primary and Secondary DNS;
 - Network Gateway;
- 2. Obtain an ethernet cable to connect with PC / Mac;

Connecting the device

- a. Connect the ethernet cable with RJ-45 plug into the Ethernet port of the product E2C;
- b. Insert the other end of the Ethernet cable into the Ethernet port of the computer;
- c. Connect the external power supply to the device and to the power socket;

1.2.1 CHANGING THE TCP/IP SETTINGS

The default network settings of the device are:

- IP: 192.168.1.250 (static)
- Subnet Mask: 255.255.255.0
- Gateway: 192.168.1.1
- Primary DNS: 8.8.8.8
- Secondary DNS: 8.8.4.4

In order make a connection to the device you need to change the network settings of your PC / Mac in agreement of the fixed IP metric address of the device.

N.B. before making any changes to the network settings of the PC / Mac is recommended to write down the existing ones;

For example is possible to assign to the network card of the PC / Mac the following settings, the bold number is the only value that can be set freely by the user.

- IP: 192.168.1.200 (static);
- Subnet Mask: 255.255.255.0;
- Gateway: 192.168.1.1;
- Primary DNS: 8.8.8.8;
- Secondary DNS: 8.8.4.4;

Steps for Windows XP

- 1. Open Network Connections. To open Network Connections, click Start, click Control Panel, click Network and Internet Connections, and then click Network Connections.
- 2. Click the connection you want to configure, and then, under Network Tasks, click Change settings of this connection.
- 3. On the General tab, under This connection uses the following items, click Internet Protocol (TCP/IP), and then click Properties.



- 4. Do one of the following:
- Click Use the following IP address, and in IP address, type the IP address.
- Click Use the following DNS server addresses, and in Preferred DNS server and Alternate DNS server, type the addresses of the primary and secondary DNS servers.
- 5. To configure DNS, WINS, and IP Settings, click Advanced.

Changing the TCP / IP settings may require a reboot of the system.

Steps for Windows Vista/7

	Network and Sharing Center		-	
🕘 👻 🛧 🚺 « Network	and Inter 🕨 Network and Sharing Center	v C	Search Control Panel	۶
Control Panel Home	View your basic network informati	ion and	set up connections	
Change adapter settings	View your active networks			
Change advanced sharing settings	Private no.	Acc Hor Cor	tess type: Internet meGroup: Ready to create mections: 💡 Ethernet	
	Change your networking settings			
	Set up a new connection or netwo	rk		
	Set up a broadband, dial-up, or VP	N connect	ion; or set up a router or acces	s point
	Troubleshoot problems			
	Diagnose and repair network probl	ems, or ge	t troubleshooting information	۱.
See also				
HomeGroup				
HomeGroup Internet Options				

Open the Control Panel. Go to Network And Internet \rightarrow Network and Sharing Center \rightarrow Change adapter settings.



Right click on the ethernet connection that you are using. Click properties..

Find the Networking tab. Open it, and click on the Internet Protocol Version 4 (TCP/IPv4). Press the Properties button.



You can get IP settir this capability. Other for the appropriate I	ngs assigne rwise, you IP settings.	d autor need to	naticall ask y	y i ou	if y r ni	our	ork	ad	ork : min	sup	por ato	ts r
Obtain an IP ac	idress auto	matical	ly									
Use the following	ng IP addre	ess:			_	_		_	_			
IP			111		11	1.	111		111	4		
Sub t sk:		1		,			9	÷		1	di l	
Default gate w:				•	(\ \	x				
Obtain DNS ser	addres	s autor	natical	у								
• Use the following	ng Di ser	ver add	resses	:								
Preferred DNS set	rver:			•	ł.	3 6	8	÷				
Alternate DNS ser	ver:			•		R •		•				
-	as upop ev	rit					6					_

In the general tab, click Use the following IP address Type in a string of ones, type the subnet mask and the default gateway.

In the general tab, click Use the following DNS server address Type in a preferred DNS server and Alternate DNS server.

automatically i ed to ask you	f you r net	ur net work	work s admini	upports strator
atically				
111 . 111 . 1		. 111	. 111	
255 .	0	. 0	. 0	
		.	ж.	1
a da ser da se lla				
r addresses: -				
			4	1
			•	1
			Adva	nced
	automatically i ed to ask you atically : : : : : : : : : : : : : : : : : :	automatically if you ed to ask your net atically : 111 . 111 255 . 0	automatically if your net ed to ask your network atically : 1111.111.111 255.0.0	automatically if your network s ed to ask your network admini atically : 111 . 111 . 111 . 111 255 . 0 . 0 . 0 automatically r addresses:

Click "ok" twice to bring you back to the "Local Area Connection" screen.

Steps for Windows 8

On the Start Screen, (like the follow screenshot), **Type network and sharing** into search box and select Network and sharing center when it comes up



Then when the Network and Sharing Center opens, click on **Change adapter settings**. This will be the same on Windows 7 or 8.x.



Right-click on your local adapter and select Properties.



In the Local Area Connection Properties window highlight Internet Protocol Version 4 (TCP/IPv4) then click the Properties button.



Local Area Connection Properties
Networking Sharing
Connect using:
Intel(R) 82578DC Gigabit Network Connection
Configure
This connection uses the following items:
Glient for Microsoft Networks Glient for Microsoft Personal Glient for Microsoft Networks Glient for
✓ ■QoS Packet Scheduler
Grand Printer Sharing for Microsoft Networks
Internet Protocol Version 6 (TCP/IPv6)
Internet Protocol Version 4 (TCP/IPv4)
Link-Layer Topology Discovery Mapper I/O Driver
Link-Layer Topology Discovery Responder
Install Uninstall Properties
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK Cancel

Now select the radio button **Use the following IP address** and enter in the correct IP, Subnet mask, and Default gateway that corresponds with your network setup. Then enter your Preferred and Alternate DNS server addresses.

Check **Validate settings upon exit** so Windows can find any problems with the addresses you entered. When you're finished click OK.

Steps for MAC OS

Navigate to the Network Settings – Click the Apple logo, select System Preferences from the resulting drop-down list, and click the Network icon (the icon depicts a silver-gray globe with white flourishes).



Choose network and access the advanced settings – Select the network you typically use to connect to the Internet, via Wi-Fi or Ethernet, from the panel on the left-hand side of the window. Then, click the gray *Advanced* button in the right-hand corner and select the *TCP/IP* tab at the top.



	Locatio	n: Automatic		\$
Wi-Fi Connected Internal Modem Not Configured	<u>چ</u>	Status:	Connected Wi-Fi is connected the IP address 10.0	Turn Wi-Fi Off to Dt-private2 and has 1.33.
Prote Not Configured Ethernet Not Connected FireWire Not Connected Bluetooth PAN No IP Address	↔ ↔ ¥	Network Name:	Ask to join ne Known networks w If no known netwo be asked before jo	 w networks will be joined automatically, riks are available, you will wining a new network.
+ - \$*		Show Wi-Fi status	in menu bar	Advanced

Change the IP address – From the **TCP/IP** tab, select the **Using DHCP with manual address** option from the drop-down menu to the right of **Configure IPv4** and enter your desired IP address in the box below. Alternatively, you can choose **Manually** from the drop-down menu to the right of **Configure IPv4** and manually enter your desired IP address as well as the subnet mask and your gateway's IP address. Click the gray OK button in the bottom-right and then Apply to save the changes.

	TCP/IP DNS WINS 802.1X Pr	oxies Hardware
	Status Connector	Turn Wi-Pi O
Configure IPv4	/ Using DHCP	Contra to the servered and he
	Using DHCP with manual address	D DUCDU
IPv4 Address	Using BootP	Renew DHCP Lease
Subnet Mask	Manually	ID:
Poutor	Off	(If required)
Router	Constant State	
Configure IPv6:	Automatically	
		_
Wi-Fi		
		unios Harduara
WiEi		UNIES Haluwale
Wi-Fi		
Wi-Fi		d Turn Wi-fi O

To set the DNS server is possible to follow the same previous steps in the DNS tab.

1.2.2 DEVICE ACCESS

To open the configuration web pages, open a web browser (preferably Google Chrome o Mozilla Firefox) and enter the IP address of the device, for new product configuration is: **192.168.1.250/config.htm**

- a. Insert user name and password the defuault values are: User: admin Password: admin
- b. After log the device shows the following screen:



TiEmme elettronica	
Home	admin English 👻
Home 01 View	General Information: System clock: 26/06/14 14:56 Firmare Revision RTU: 1.01.03 (6.26.14)
Settings	Web Interface Revision: 1.01.04 Serial Nuber: SN14200342
	Internet connection: OK Current Public IP: 82.63.232.213
	Copyright © 2013 Sinapsi s.r.l.

c. Select Settings \rightarrow Network \rightarrow General setup to access the following screen

ings > Network		admin E
Home	General Setup Email Setup	DynDNS
Settings		
System	Network settings	
Network	MAC Address:	70.63.45.51.46.43
Remote Control	into Address.	10-00-00-01-00-10
User Account	Enable DHCP	
		102 100 1 121
	Gateway Address:	192.108.1.121
	Netmask:	255,255,255,0
	Primary DNS:	8.8.8
	Secondary DNS	8.8.4.4
		Save

- a. Change the settings based on the LAN where you will install the device;
- b. Click to save botton to save the changes done

N.B. Assigned the IP address, the device is ready to be installed in the destination LAN network. Remember to reset the settings of the network card of the PC / Mac with which you have used for the configuration.

1.3 INSTALLATION

To complete the installation, connect the device to the destination LAN and to the control board of the hating system.

Do the following steps:

- Identify the type of serial communication port used by the control board between RS232/RS485. In case you do not have this information try alternately with both;
- Check that the modem function is enabled;



- Verify that the COM ports configuration of E2C is the same of the control board. Otherwise, use the jumper show in the picture to change the communication mode. To check the settings refer to LEDs status.
- Connect the Ethernet cable to the LAN and to the ETH port of the device. To test the connection, refer also to the state of the LEDs;
- Connect the E2C to the control board using 4-wire telephone cable with RJ11 plug or the ethernet cable with RJ45 plug;
- Switch on the device connecting the external power supply;



1.4 CONFIGURATION

Through the web interface you can complete the configuration of the product. Open a web browser, preferably Mozilla Firefox or Google Chrome, and enter the IP address of the device that was created in paragraph IP address assignment;

- a. The default credentials for the access are User Name: admin, Password: admin
- b. After log the device shows the following screen:

TiEmme elettronica	admin English 💌
Home O1 View Settings	General Information: System clock: 26/06/14 14:56 Firmare Revision RTU: 1.01.03 (6.26.14) Web Interface Revision: 1.01.04 Oracid Underson (1.01.04)
User Account	Serial Nuber: SN14200342 Internet connection: OK Current Public IP: 82.63.232.213



1.4.1 MENU STRUCTURE

Menù Tree		
HOME	View	General Information
SETTINGS	System	Plant Data
		System Setup
		Maintenance
	Rete	General Setup
		Email setup
		DynDNS
	Remote Control	Gestione telecontrollo
USER ACCOUNT	Login	User configuration

1.4.2 HOME

In this section are showed the following informations:

- System clock;
- Firmware revision RTU;
- Web interface revision;
- Serial Number;
- Internet connection state;
- Current public IP.

TiEmme elettronica	
User ≻ Login	1234 English 💌
Home OI View Settings User Account	General Information: System clock: 26/06/14 18:28 Firmare Revision RTU: 1.01.03 (6.26.14) Web Interface Revision: 1.01.04 Serial Nuber: SN14200342 Internet connection: OK Current Public IP: 82.63.232.213
	Copyright © 2013 Sinapsi s.r.l.

1.4.3 SETTINGS

SYSTEM

Plant Data Anagrafica impianto

The information on this tab will be used for the cloud and assistance service. The Data will be reported in the e-mail request sent by the application Easy2App .



ings > system		12041 En	giis
Home	Plant Data System Setu	p Maintenance	
Settings	Customer Name:		
System	Address:		
Network	Installer Name:		
Remote Control	Date Install:	01/01/2014 🕮	
User Account		Save	

The information that the user can enter are:

- Customer Name;
- Address;
- Installer Name;
- Date Install;

To save the changes click on the save button. If the operation is successful will be show the message: Information saved.

System Setup

s > System	admin
ome	Plant Data System Setup Maintenance
ettings	
stem	System Clock
etwork	System clock: 26/06/2014 18:54:41
emote Control	Synchronize date time from your pc:
User Account	System Date 26/06/2014
	System Configuration
	System Restart Reboot

The setting of the date and time can be done manually or by synchronizing with the local computer. The changes will take effect only after clicking on the Synchronize button.

Using the Reboot and Reset buttons is possible to reboot and reset the device.



Maintenance

jor oforem		Loss Eng
Home	Plant Data System Setup Maintenance	
Settings	Cottomer Management	
System	Firmare Revision RTU: 1 01 03 (6 26 14)	
Network	Web Interface Revision: 1.01.05 (0.20.14)	
Remote Control		10
User Account	SW/FW Update	
	Download and Install	
	Connect to server in progress	
	Customization:	
	Select File	rade
	Update meters database	
	Select File	rade
	Download and Install	
	Connect to server in progress	

Software management section

Is possible update the E2C Firmware in two different ways:

- 1. On-line mode when the device is connected to internet clicking on the download and install button. If there are new updates you will receive an informational message in the highlighted area
- 2. Off-Line mode when the device in not connected to the internet. In the customization section, click on the white field, in the selection windows select the local file

In online mode, the user will be informed of the availability of new updates with a message area highlighted in yellow. To proceed with the update, you must click the **Download and install** button.

In the off-line mode, you must click inside the blank field and select them via the local file selection window that opens. To complete the operation, click on the **Upgrade** button

Customization section

In this section is possible to upgrade the graphic customization. To update click on the wihte field, select the local customization file, and then click on the **Upgrade** button.

In the software management section you can upload the file to customize the web app Easy2app. To proceed click inside the color field blank and select the file locally from the selection window. To complete the operation click on the Update button.

In the Updates section models control cards, in the same manner as described above, you can update the mapping of control cards are not supported initially.

Meters Database

In the update meters database you can upload a file mapping of the control board initially not supported. In this case is supported the on/off-line modality like for firmware updates.



NETWORK

General Setup

iigs > Network		1234
Ноте	General Setup Email Setup	DynDNS
Settings		
System	Network settings	
Network		70 50 45 54 40 40
Remote Control	MAC Address:	70-03-05-51-06-43
User Account	Enable DHCP	
	IP Address:	192.168.1.121
	Gateway Address:	192.168.1.1
	Netmask:	255.255.255.0
	Primary DNS:	8.8.8.8
	Secondary DNS	8.8.4.4
		_
		Save
	1	

In the general tab is possible insert ad visualize the follow information:

- MAC address. Not changeable and it is present even in the external label of the device.;
- Enable DHCP: to obtain an IP address from DHCP server of the network;
- IP address;
- IP Gateway address;
- Subnet mask;
- Primary DNS;
- Secondary DNS;

Click on save button to apply the changes.



Email setup

TiEmme elettronica			
ttings > Network			1234 Englis
Home	General Setup Email Setup	DynDNS	
Settings System Network Remote Control User Account	Email server settings SMTP Hostname: SMTP Port: SMTP Username: SMTP Password: Email sender:	25	
	Email recipient n.1:	Save Test	

In the email tab is possible enter information to configure the email service available in the web application Easy2App.

In the tab email can be displayed and enter the following information:

- SMTP hostname: e-mail server that the device uses for sending email;
- SMTP port: port used by the mail server for sending email;
- SMTP Username: username to access to the e-mail service;
- SMTP Password: password to access to the e-mail service;
- Email Sender: the name that will appear as the sender of the email;
- Email Recipient: e-mail address of the recipient. You can enter up to four e-mail addresses.

To verify the correctness of the settings you can use the Test button. To save the settings you can use the Save button.

N.B. Are supported only email services that do not use SSL standard.



gs > Network		123	41 English 👻
Home	General Setup Email Setup	DynDNS	
Settings			
System	Dynamic DNS settings		
Network	Domain Name:		
Remote Control	Domain Hame.		
User Account	Enable Dynamic DNS		
	Server DynDNS:	no-ip.com 👻	
	Username:		
	Password:		
		Save	

DynDNS

In this tab can be configured the device for the use of DNS services in case of use of public dynamic IP address. The information displayed and edited are:

- **Domain Name:** Indicate the full address assigned by the provider in the dynamic DNS services Ex: xxx.dyndns.com
- Enable Dynamic DNS: Enable the Dynamic DNS service;
- **Dynamic DNS Server:** Allows you to choose the dynamic DNS server that provides the service, we are currently supported no-ip.com and DynDNS.com;
- Username: user credentials used to access to the service;
- Password: the user credentials used to access to the service;

To save the settings you can use the **Save** button.

Remote Control

In this section you can perform all the settings for the remote control service performed by software System 4.0 Evolution

In this tab can be displayed and enter the following information:

- Enables remote control: to enable the remote control service;
- Mode: Server / Client;
- Keep-Alive timeout: 0 to 120s
- **Port:** communication port of the device

To Save the settings made click on the **Save** button.



elettronica			
npostazioni > Telecontrollo			1234 English
Home	Remote Control Setting	5	
Settings			
1 System	Enable Remote Control		
2 Network	Mode:	Server -	
3 Remote Control	Keep-Alive Timeout:	60 [10-120 seconds]	
User Account	Port:	9000	
		Save	
	Copyr	ight © 2012 Sipport of L	
	CODVI		
		gnt © 2015 Sinapsi s.r.n.	
		girt © 2013 Sinapsi Si ii.	
		gin © 2010 Olifopsi s.i.i.	
		ynt © 2010 Sindysi Sirii.	
TiEmme		ynt y 2013 Sineparsinit	
TiEmme elettronica		ynt o 2013 Sinopa sir it	
Difference of the second secon		ynt o 2013 Sineparsina.	12341 English
		ynt o 2013 Sinopa sir A	1234 English
Delettronica postazioni > Telecontrollo Home	Remote Control Setting	gnt © 2013 Sinopai sin A.	1234 English
PELETTRONICA postazioni > Telecontrollo Home	Remote Control Setting	gnt © 2013 Sinopai sin A.	1234 English
Determine a control of the control o	Remote Control Setting	s	1234 English
Control C	Remote Control Setting Enable Remote Control	s	12341 English
bootstazioni > Telecontrollo boots	Remote Control Setting Enable Remote Control Mode:	s	12341 English
Destazioni > Telecontrollo Home Settings System System Network	Remote Control Setting Enable Remote Control Mode: Keep-Alive Timeout:	s Client ▼ 60 [10-120 seconds]	1234 English
	Remote Control Setting Enable Remote Control Mode: Keep-Alive Timeout: Remote Server:	ynt € 2013 Sineparsit. Client ▼ 60 [10-120 seconds] srvname.com	1234 English
Example Control Example Control Settings 1 System 2 Network 3 Remote Control User Account Vertex Control	Remote Control Setting Enable Remote Control Mode: Keep-Alive Timeout: Remote Server: Port:	S Client - 60 [10-120 seconds] srvname.com 9000	12341 English
Filecontrollo Home Settings 12 Network 13 Remote Control User Account	Remote Control Setting Enable Remote Control Mode: Keep-Alive Timeout: Remote Server: Port: Device ID:	S Client - 60 [10-120 seconds] srvname.com 9000 00-50-2-00-00-01	12341 English
Filecontrollo Home Settings System Network Remote Control User Account	Remote Control Setting Enable Remote Control Mode: Keep-Alive Timeout: Remote Server: Port: Device ID:	S Client • 60 [10-120 seconds] srvname.com 9000 00-50-C2-00-00-01	1234 I English
b C Controllo c Control c C Control c C Control c C C C C C C C C C C C C C C C C C C C	Remote Control Setting Enable Remote Control Mode: Keep-Alive Timeout: Remote Server: Port: Device ID:	S Client ▼ 60 [10-120 seconds] srvname.com 9000 00-50-C2-00-00-01 Save	1234 English
Exercise Control Exerci	Remote Control Setting Enable Remote Control Mode: Keep-Alive Timeout: Remote Server: Port: Device ID:	S Client • 60 [10-120 seconds] Srvname.com 9000 00-50-C2-00-00-01 Save	12341 English

SERVER MODE



In Server mode, the device is listening and waits for connection requests from remote clients outside the local network. This configuration is desirable when is necessary to connect to the control board from different areas.



Pro

• Ability to reach the control board from anywhere in the world and from any computer connected to the Internet and equipped with the Software System Evolution 4.0.

Against

- In presence of a router with a firewall you will need port mapping to direct incoming traffic to the remote E2C.
- Need to configure the device E2C with static IP address.
- Is necessary to have a public static IP address, or in the case of dynamic IP, an DNS mapping services by router on the network.

CLIENT MODE



In client mode the E2C device attempts to connect to a remote server listens for connections from the outside. Each device is identified by a name (user defined at configuration time) that is sent during the connection. This configuration is helpful in the case where there is a PC are carried out centrally from which all the operations of management and assistance.

Pro

 There is no need to perform any port mapping in your local network that is attached to the product as it is E2C outbound connections;

Counter

- You cannot connect to devices E2C from locations different from a central server;
- The listening server must be configured with static public IP addres.



1.4.4 ACCOUNT UTENTI

Login

In this section is it possible to change the credential to access to the web configuration and web app for the user and administrator account.

To Save the settings made click on the **Save** button.

User > Login			1234 i English 👻
Home Settings User Account 01 Login	User Configurati This page allows you to cha default password: admin. Enter the new settings for User Account Username Password Re-type password	on ange the system. the board below: user 	
	Administrator Account Username: Password: Re-type password	Save	



2. EASYZAPP

Easy2App is a web app, which resides in the web server inside the product Easy2Check. It is a web based solution, and it is accessible from any device with a browser for surfing the internet.

The application is structured in four sections; Home, Cronus, Service, On / Off

Using the application it is possible to perform monitoring, and managing locally or remotely.

The main operations that you can perform with the application are:

- Display the main information of the heating system, such as:
- Main Temperature;
- Error and / or anomalies;
- State of operation;
- • Set the timer *
- Sending email for assistance requests;
- Run the On, Off and Unblock command.

Home	Crono	Service	On/Off
	al. SITA the state of the state o	ut_3ITA	
OFF	SAVE	Enable remote control	
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2.1 ADD THE APP TO HOME SCREEN

Below there is the procedure to add the Easy2App at home between the available applications of the devices used for access. In this case we refer to the smartphone

Steps for IOS system

Open Safari and enter the IP address of the device.





V	VI	VII	VIII
Install this web app on your informed and then Add to Home Screen.	at. SITA 1732 68% ExpyAPP ExpyAPP 192.165.1.121/ Correl Mail Forsage Mail Forsage Facebook Forsage Add to Forme Screen Forsa Copyon this Bockmark ny No. Add to Forse to the Bockmark ny No. Add to Rending List Copyon this Bockmark ny No. Add to Rending List Commo Screen Cancel	eta SITA 1738 e 68% m) Carcel Add to Home Add Carcel Add to Home Add Easy2APF S An icon will be added to your home screen so you can quickly access this web site. S Q W E T Y U O P A S D F G J K L Q Z X C V N M X 123 () space return return R	er 3 ITA 2 17.39 0 88% I ESS2200 ESS200 ESS20
At the first access, it displayed a panel with the instruction for the installation of the app.	Follow the instruction ad then select add to home screen	Insert the custom name for the app	The application is now available

Steps for Android System

It's better to use a Google Chrome browser

	II	II	IV
() 192.168.1.121 () 1	Image: second secon	Image: server http://12.168.1.121 Authentication Required Tusermane and password. The server says: Easy2APP. User Name: Cancel Log In	Image: Contract of the second seco
Open Crhrome browser and insert the IP address of the device	Insert the user and password	Default value are: User: admin Password: admin	Application loading



V	VI	VII	VIII
	15:59 192.168.1.121 New incognito tab Bookmarks Recent tabs History Share Print Find in page Add to home screen Request desktop site Settings	Image: Solution of the second se	Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image
Home page.	Follow the instruction ad then select add to home screen	Insert the custom name for the app	The application is now available

2.2 REMOTE CONNECTION

With Easy2App is possible remote connect to the heating system via Internet when the user is not connect to the local LAN. For remote connection is necessary change the settings of the network router.

2.2.1 CONFIGURATIONS STEPS

To remote access with web app follow the instruction above:

- Select a free communication port to utilize in combination with public IP for the incoming connections;
- Make a port forwarding rule in the network router from public port to the port 80 of the E2C IP address:

Public IP: public port → Easy2Check IP: port 80

Verify that the communication port is not already reserved for standard services of the operating system. It is advisable to adopt communication ports from the value of 9000.

2.2.2 REMOTE ACCESS

To access to the application via internet, proceed as follows:

- Open the web browser of the device from which you want to connect;
- Enter in the address bar the public IP and communication port (port defined public with the configuration steps). The public IP network is also visible in the Status menu system in the General section.

Public IP: public port



2.3 REMOTE CONTROL

2.3.1 CONFIGURATION STEPS

With the remote control via System evolution 4.0 is it possible monitoring and configure by remote the heating system embedded with E2C.

In the presence of a network router and E2C is in server mode it necessary to make additional port forwarding rule.

- Select a free communication port to utilize in combination with public IP for the incoming connections. The public port must be different from the port utilized for the access with the web app.
- Make a port forwarding rule in the network router: from public port to the port of the E2C IP address set in the menu **remote control**.

Public IP: public port → Easy2Check IP: remote control server port

Verify that the communication port is not already reserved for standard services of the operating system. It is advisable to adopt communication ports from the value of 9000.

2.3.2 Access

The remote control Sessions can be performed by the Software System 4.0 Evolution of the window Connection Mode

Ø Connection Mode		
Serial Port	GSM Modem	TCP/IP
Connect to Control board USB Programmer COM Port Selection COM Port COM4	Connect Searc	h

If the E2C device is configured as server the connection must be performed in client mode by entering the remote IP address of the product and its communication port.



nnection Mode		
Serial Port	GSM Modem	ТСРЛР
C Server		
 Client 	Address Book	
Remote IP/FQDN	Remote Box Port	
	9000	
Connect	Close	

In the case where the device is configured as a client connection must be executed in server mode by entering the E2C device ID and its port that can be configured in the remote management section. By default here is the mac adress of the E2C. If the device is configured as a server the connection must be performed in client mode by entering the remote IP address of the product and its communication port.

Ø Connection Mode		×
Serial Port	GSM Modem	TCP/IP
TCP/IP C Server C Client Remote Box ID Connect	Address Book Remote Box Port 9000	