

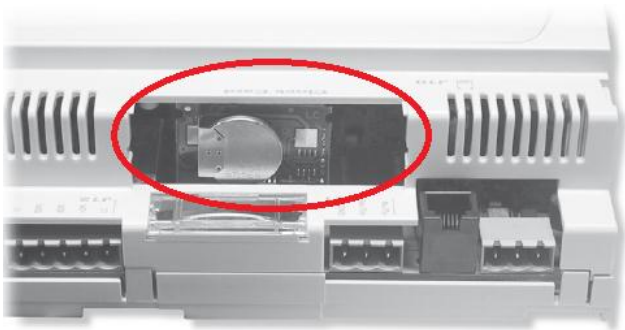


# PCOWEB User Manual

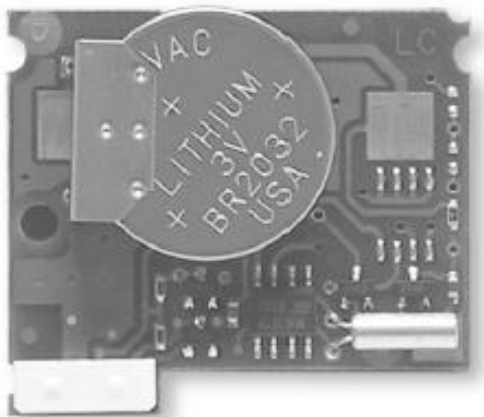
## How to install the pCOWeb into the pCO

**Warning.** When handling the card, please pay attention because electrical damage may occur to the electronic components as a result of electrostatic discharges from the operator. Some precautions must be therefore be taken when handling these components

The pCOWEB can work like a data logger only with the clock card. Check if the clock card is already installed in the pCO.



If the clock card has not been installed check the instruction of the pCOWEB or follows the picture.  
**IMPORTANT:** to avoid damage, before inserting clock card, disconnect power to the pCO controller



Clock card



remove the "clock card" placement cover with a screwdriver



insert the optional card into the corresponding connector, taking care that the card is firmly placed and close the cover.



Change the following parameters (For other software, please see specific parameters list)

(JREF\_13\_05 example)

Manufacturer -> Configuration					
C0	4	Enable clock board	No	Yes	No-Yes
Clock					
K0	1	Hour setting current hour			0-23 hours
	2	Minute setting current minutes			0-59 minutes
	3	Day setting current day			1-31
	4	Month setting current month			1-12
	5	Year setting current year			0-99

(CS\_04\_05 example)

Automatic enabling clock card after installation

Clock					
L1	1	Hour setting current hour			0-23 hours
	2	Minute setting current minutes			0-59 minutes
	3	Day setting current day			1-31
	4	Month setting current month			1-12
	5	Year setting current year			0-99

For the installation of the pCOWEB into the pCO1 please check the user manual of the pCOWEB or see the following pictures. **IMPORTANT:** to avoid damage, before inserting pCOWeb, disconnect power to the pCO controller.



pCOWEB and Cover



Removing the cover from the pCO



Inserting pCOWeb in the pCO



Securing pCOWeb with the cover

Each pCOWeb is uniquely distinguished by its own MAC address. The network administrator may at times need to check the MAC address of each pCOWeb installed. The MAC address is shown on the label applied to the connector,



Change the following parameters (for other software, please see specific parameters list):

(JREF\_13\_05 example)

Manufacturer -> Configuration				
C0	1	Enable BMS	No	Yes No-Yes
User Menu				
Pf	1	Board identification number for supervisory network	1	1-200
	2	Board communication speed for supervisory network	1200	<b>19200</b> 1200-19200
	3	Serial communication protocol	Carel	Carel, Modbus, Lon, RS232, Gsm

(CS\_04\_05 example)

Automatic enabling clock card after installation

User - LAN and Supervision				
J6	1	Board identification number for supervisory network	1	1-200
	2	Board communication speed for supervisory network	1200	<b>19200</b> 1200-19200
	3	Serial communication protocol	Carel	Carel, Modbus, Lon, RS232, Gsm

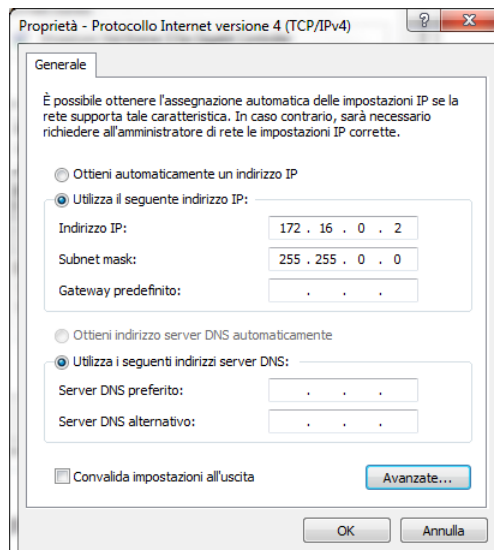
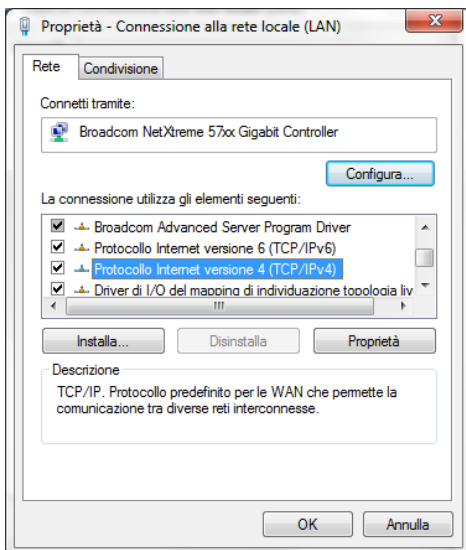
## How to configure PC (direct connection PC - pCOWEB)

The PC can communicate with pCOWeb if the settings on both devices are correctly aligned.

As the pCOWeb default settings can only be changed once the connection has been established with the PC, when first accessing the device the personal computer will need to be configured to adapt it to the pCOWeb default settings.

### IP ADDRESS AND SUBNET MASK (no proxy server)

The personal computer must be set not to use the DHCP. Click "Control panel" and find "Network and dial-up connections" and "Local area connection". Select Internet protocol TCP/IP/IPv4) and Click "Properties": the window shown on follows is displayed



IP address = 172.16.0.nn, where nn is not 1 (for example nn = 2)  
Subnet mask = 255.255.0.0

Click the OK button to close all the windows.



## How to connect the pCOWEB to Pc

Connect *pCOWeb* to the Ethernet connector on the PC using a crossover cable



For new Ethernet board is possible to use both the Ethernet cable, cross or patch

## How to start the pCOWeb

Switch on the *pCO* controller and check that both the indicator LEDs on the *pCOWeb* connector come on within a few seconds.

Activating the factory network settings (button)

- INFORMATION : the activation of the factory settings or the user settings can only be selected when starting the pCOWEB.
- Immediately after reboot, as soon as the Status LED remains on steady GREEN, to activate the factory settings rather than the user settings, hold the button;
- after around 20 seconds the Status LED, due to the button being pressed, will turn RED and flash slowly 3 times; the button must be released before then end of the 3 flashes;
- once the red flashes have terminated, the Status LED will turn GREEN and, if the procedure has been performed correctly, immediately after the Status LED will confirm the pressing and release of the button by flashing quickly 3 times RED, and then will come on steady GREEN again for around one minute (completion of the start-up phase);
- once the start-up phase has been completed, the Status LED will start flashing: pCOWEB will now start operating.



In this mode pCOWEB will not use the values of the “User” parameters for communication, but rather the following values:

- IP address: 172.16.0.1
- Subnet mask: 255.255.0.0

NOTE 1 These values remain active until pCOWEB IS RESTARTED (see Figure 3.g below). When next rebooted, if the button is NOT pressed, pCOWEB will return to the “User” configuration (see chapter 8 on page 39).

NOTE 2 These values are part of the “Bootswitch parameters” and, unlike the user parameters, cannot be modified. The Bootsswitch parameters are never copied over the user parameters.

NOTE 3 By default, the pCOWEB “User” values activate DHCP mode for network communication.





## How to test the connection

After the connection, is possible to test the communication by “ping command”.

Wait for pCOWeb to complete the start-up phase (check that the Status LED is flashing normally), otherwise the required web pages will not be sent to the PC.

Start “cmd” command from your Pc, and digit “**ping 172.16.0.1**” and press enter. If the connection is ok, there will be some answer from the pCOWEB.

At the end, digit “exit” and press enter to esc.

```
CAWindows\system32\cmd.exe
Microsoft Windows [Versione 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Tutti i diritti riservati.
C:\Users\stefano.fabbretti>ping 172.16.0.1

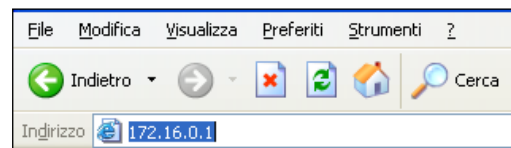
Esecuzione di Ping 172.16.0.1 con 32 byte di dati:
Risposta da 172.16.0.1: byte=32 durata=184ms TTL=51
Risposta da 172.16.0.1: byte=32 durata=187ms TTL=51
Risposta da 172.16.0.1: byte=32 durata=189ms TTL=51
Risposta da 172.16.0.1: byte=32 durata=185ms TTL=51

Statistiche Ping per 172.16.0.1:
    Pacchetti: Trasmessi = 4, Ricevuti = 4,
    Persi = 0 (0% persi),
    Tempo approssimativo percorsi andata/ritorno in millisecondi:
    Minimo = 184ms, Massimo = 189ms, Medio = 186ms

C:\Users\stefano.fabbretti>exit
```

## How to access to web server

On the PC open Internet Explorer; in the address field enter the following number, including the dots: 172.16.0.1 then press ENTER.



**Without web pages (standard Carel)**

To access to different section of the web server, click to “Go to Administration Area”. The default password are:

- User = admin (default value)
- Password = fadmin (default value)



English SET

Home page

Parameters

Datalogs

Alarms

PCOWEB Settings

UNIT MODEL  
JADC0190

IP ADDRESS  
10.1.0.85

DATE  
2011-10-06 17:33

UNIT STATUS	
Unit On/Off	<input checked="" type="radio"/>
Evaporating Fan	<input checked="" type="radio"/>
Compressor	<input type="radio"/>
Inverter	0 %
Serious Alarm	<input type="radio"/>
Not Serious Alarm	<input type="radio"/>

PROBES READING	
Room Temperature	24.4 °C
Supply Temperature	22.7 °C
Air Flow	2000 m <sup>3</sup> /h

PCOWEB CCAC 02.00  
2011-10-06 17:33

### With web pages (custom HiRef)

To access to different section of the custom web server, the default password are:

Home page an Alarm page:

- free access

pCOWEB settings page:

- User = admin (default value)
- Password = fadmin (default value)

Parameters page and Data Logger page

- User = reserved (default value)
- Password = preserved (default value)

## How to enter in the configuration menu

Click on the link and insert user and password for the access

With web pages

Click on the icon:

- User = admin (default value)
- Password = fadmin (default value)

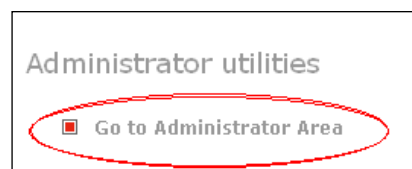


pCOWEB settings page

Without web pages

Go to administrator Area:

- User = admin (default value)
- Password = fadmin (default value)



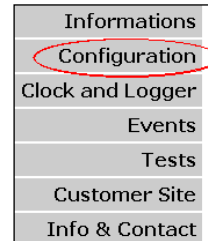
On follows, the instruction for both the software, with and without web pages



## How to change the pCOWeb IP address

Enter in the configuration menu

- Enter the Configuration sheets (menu on the left)



- In the Network sheet insert the IP and Mask to assign to the pCOWeb

General **Network** pCO Com SNMP

View current network situation

**Networking Configuration**

Eth0

IP Address main

NetMask main

- And Submit to save the new value

**Gateway**

Gateway Address:

**DNS servers**

Primary DNS:

Secondary DNS:

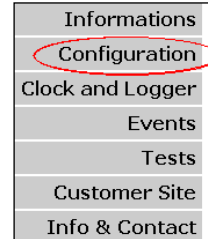
After this configuration, is possible to connect to pCOWB by local net, only if the Pc has the right configuration



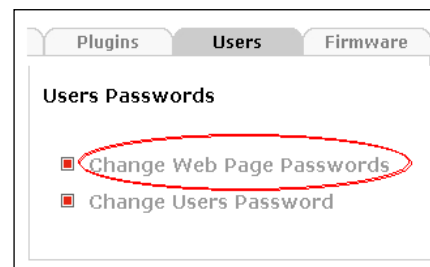
## How to change the password to the parameters page

Enter in the configuration menu

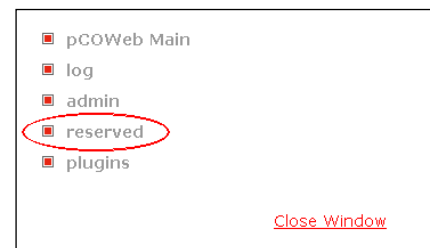
- Enter the Configuration sheets (menu on the left)



- The default user and password to access to parameters page of the unit are
  - User: reserved;
  - password: preserved.
- In the User Sheet click on “Change Web Page Password”



- Click on Reserved folder link



- Insert the new Username and Password (that will be necessary to enter to the parameters page by the browser) and Submit to confirm the change

**Change password**

Enter the username and password in the form then press the button (Note that ENTER does not work)

Username:

Password:





## How to change the email function configuration

Enter in the configuration menu

- Enter the Configuration sheets (menu on the left)

Informations
Configuration
Clock and Logger
<b>Events</b>
Tests
Customer Site
Info & Contact

- Click on "View and modify all the Host" link

### Messages Receivers Configuration

- View and modify all the Host
- View and modify status messages

- In the E-mail configuration insert the parameters
  - mail account
  - Reply to: mail. Address
  - Destination #1 .. #5: mail address
  - SMTP Server Address
- and submit to save (all the values found have been used only to try the function and must be modified for a correct working).

#### E-Mail Configuration

Username

Password

E-Mail Account\*

Identification

Reply to

Destination #1\*

Destination #2

Destination #3

Destination #4

Destination #5

SMTP Server Address\*

XML template for attachment  [Choose](#)

Attached file name\*\*

(\*) Mandatory  
(\*\*) Adding "[data]" to the initial part of "Attached filename name", pCOWeb will substitute [data] with the pCOWeb's system clock date. Using [data]-output.xml will give, as example, 2008-07-27\_185523-output.xml where 2008 is the year, 7 the month, 27 the day and 185523 are the hours, minutes and seconds.



## How to set the data logger

Enter in the configuration menu

- Enter the Configuration sheets (menu on the left)

Information
Configuration
<b>Clock and Logger</b>
Events
Tests
Customer Site
Info & Contact

- Enable Clock Syncer = enabled
- Click on “Clock” and set the integer variables with date and time.  
**IMPORTANT: set the addresses on the supervisor variable list on this variables, not the value.**
- Then, click “submit”

Actual date: 2011-10-06 16:42

**Clock Configuration**

Enable Clock Syncer  Disabled  Enabled

Synchronization type  Every Minute  Only at start

Choose integer variables with date and time.

Day variable index 7

Month variable index 8

Year variable index 9

Hour variable index 5

Minute variable index 6

Submit

- Update files to this very moment:
  - the pCOWEB generate a log file updated to this moment
- Download all the csv and graphs via web pages:
  - download all the data log files
- Download the latest csv:
  - download last data log files

**Download Utilities**

- Update files to this very moment
- Download all the csv and graphs via web pages
- View the latest graph

**Logger Status**

- Check logger status and free space available

**Logger Configuration**

- Log by E-Mail Configuration

- Enable logger
  - Set to Enable
- Time sample
  - Frequency of data storage
- Enable the variable that have been logged (up to 20m with name, type and address and a short description)
- Option: enable variable graph with the limit
- Then click on “submit”

Enable logger  Disabled (\*)  Enabled  
 (\*To stop the logger you must restart pCOWeb  
 Time Sample   
 Compression (.gz)  Disabled  Enabled

Choose index and type and put a simple description for the logged variables.

	Enable	Name	Type	Index	Short Description
1	<input type="radio"/> Off <input checked="" type="radio"/> On	Cond_Press	Analog	2	cond pressure
2	<input type="radio"/> Off <input checked="" type="radio"/> On	Room_Temp	Analog	4	room temperature
3	<input type="radio"/> Off <input checked="" type="radio"/> On	Supply air tem	Analog	5	Aria mandata
4	<input type="radio"/> Off <input checked="" type="radio"/> On	Surriscaldamento	Analog	78	
5	<input type="radio"/> Off <input checked="" type="radio"/> On	Saturazione	Analog	79	
6	<input type="radio"/> Off <input checked="" type="radio"/> On	Aspirazione	Analog	80	
7	<input type="radio"/> Off <input checked="" type="radio"/> On	Pressione ASP	Analog	81	
8	<input type="radio"/> Off <input checked="" type="radio"/> On	Cond Temp D1	Analog	82	
9	<input type="radio"/> Off <input checked="" type="radio"/> On	Aout 3	Integer	3	
10	<input type="radio"/> Off <input checked="" type="radio"/> On	Aout pCOE	Integer	13	
11	<input type="radio"/> Off <input checked="" type="radio"/> On	Inverter	Integer	88	
12	<input checked="" type="radio"/> Off <input type="radio"/> On	Cool Demand	Integer	124	
13	<input checked="" type="radio"/> Off <input type="radio"/> On		Digital	1	
14	<input checked="" type="radio"/> Off <input type="radio"/> On		Digital	1	
15	<input checked="" type="radio"/> Off <input type="radio"/> On		Digital	1	
16	<input checked="" type="radio"/> Off <input type="radio"/> On		Digital	1	
17	<input checked="" type="radio"/> Off <input type="radio"/> On		Digital	1	
18	<input checked="" type="radio"/> Off <input type="radio"/> On		Digital	1	
19	<input checked="" type="radio"/> Off <input type="radio"/> On		Digital	1	
20	<input checked="" type="radio"/> Off <input type="radio"/> On		Digital	1	

**Graph**

This is configuration for the old BMP graph; please consider using the new SVG graph instead.

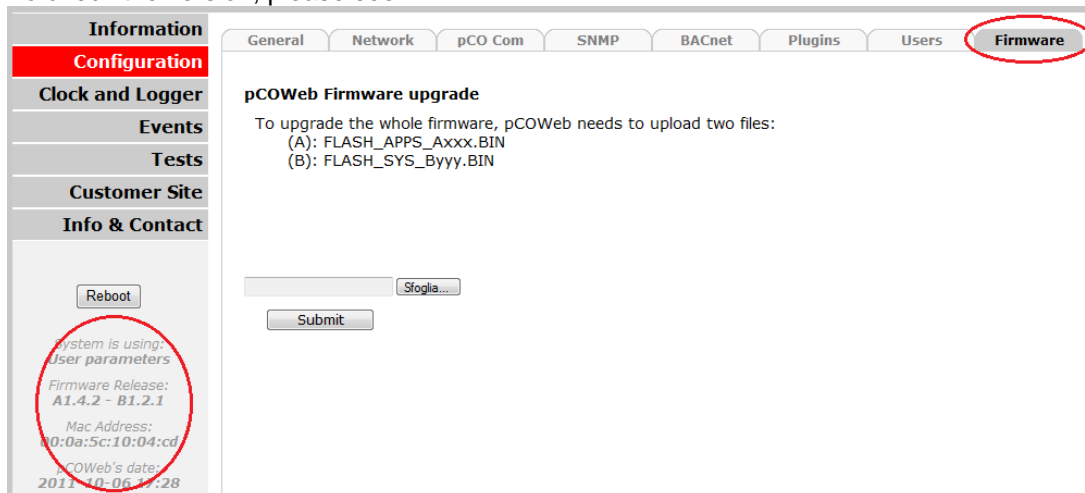
Enable Variable Graph   
 High Limit  (if empty, 32767 integer or 3276.7 analog)  
 Low Limit  (if empty, -32768 integer or -3276.8 analog)

## How to check the firmware release

The firmware of the pCOWEB is divided into two different block

- Block A: application
- Block B: bios

To check the version, please see



To update the firmware, click on “Configuration” and “Firmware” and follow the instruction.

## For more information, please see the user manual of the of pCOWEB

