

P-WEB

OPERATION SEQUENCE

ETHERNET WEB-BASED CONTROL



205 P-WEB Rev2



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NOTE: Preferred Internet Browser
MOZILLA FIREFOX is the preferred internet browser for this Control System.

1 MAIN WEB PAGE DESCRIPTION

The current IP address for the **LIGHTING CONTROL SYSTEM**
Main Page is: <http://192.168.254.40>



PLC-Multipoint, Inc.
Ver: 04-11-20 12

Lighting Control 8 Zone System
2013-08-13 10:28
Entries in RED are ReadWrite

Zone Index	Digital Inputs	Photo Sensor Input FC	Sensor HiLim Off-Point	Sensor LoLim On-Point	Photo Output State	Zone Configuration	Relay Output State	Output Override 0=Auto, 1=On, 2=Off	Run-Hours
1	Low	68	120	80	On	2	On/	0 Auto	8
2	Low	68	120	80	On	2	On/	0 Auto	8
3	Low	68	120	80	On	2	On/	0 Auto	8
4	Low	68	120	80	On	2	On/	0 Auto	8
5	Low	68	120	80	On	2	On/	0 Auto	8
6	Low	68	120	80	On	1	On/	0 Auto	7
7	Low	68	120	80	On	3	On/	0 Auto	7
8	Low	68	120	80	On	2	On/	0 Auto	8

Zone Index	Zone TC Output State	Time Clock Selection (1-8)	Photo Sensor Selection (1-3)	Photo Sensor Status
1	On	1	1	Valid
2	On	1	1	Valid
3	On	1	1	Valid
4	On	1	1	Valid
5	On	1	1	Valid
6	On	1	1	Valid
7	On	1	1	Valid
8	On	1	1	Valid

Photo Sensor Settings	CES/O Maximum	CES/L Maximum
Maximum Calibration	250	0
Sensor TEST MODE	Auto=0, Test=1	0

Communication Status: ○○○

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1.1 DIGITAL INPUTS

A maximum of eight switch closure inputs are shown on the upper left. The display Input-Level will indicate a (Low) when the input is open and a (High) when a 24VDC switch closure is detected on the corresponding input. The following table indicates the digital input and output logic. Each zone must be configured for remote switch operation if required.

INPUT	RELAY ACTIVATED	DEFAULT PANASONIC GROUPS
Z1	R1	G1
Z2	R2	G2
Z3	R3	G3
Z4	R4	G4
Z5	R5	G5
Z6	R6	G6
Z7	R7	G7
Z8	R8	G8

1.2 PHOTOSENSOR STATUS/CONTROL

Each of the eight zones can be configured for photo control. Each photo control zone in this system can be adjusted for separate On and Off levels depending on the available ambient light that is sensed by the CES sensor. The output state column shows the current state of the internal photo-control logic. Off is shown for a (0) or Off state and On is shown when the photo-control is (1) or On. The internal photo-control state may not be the current relay output state due to the photo delays that are incorporated in the photo-control logic. The Sensor Input FC column shows the actual light levels in calibrated foot-candles that the CES sensor detects. As the ambient light level from the CES sensor exceeds the hlim, this will cause the corresponding output to turn Off after the built in delays have expired. In contrast, as the ambient light level falls below the lolim point, this will cause the corresponding output to switch On. The following chart describes the photo-control and output relay operation.

<u>SENSOR</u>	<u>DEFAULT SETPOINTS</u>	<u>RELAY</u>	<u>DETAILS</u>
CES	HiLim: 120, LoLim: 80 fc	NO-1	Zone-1
CES	HiLim: 120, LoLim: 80 fc	NO-2	Zone-2
CES	HiLim: 120, LoLim: 80 fc	NO-3	Zone-3
CES	HiLim: 120, LoLim: 80 fc	NO-4	Zone-4
CES	HiLim: 120, LoLim: 80 fc	NO-5	Zone-5
CES	HiLim: 120, LoLim: 80 fc	NO-6	Zone-6
CES	HiLim: 120, LoLim: 80 fc	NO-7	Zone-7
CES	HiLim: 120, LoLim: 80 fc	NO-8	Zone-8

1.3 ZONE CONFIGURATION

Each of the eight zones can be uniquely configured via the LPE or the Web-Page. The table below describes the possible configuration option numbers for this system.

OPTION	DESCRIPTION	OPTION	DESCRIPTION
1	Photo only	8	PC+TC+(RSW+SWP)
2	Time(TC) Only	9	RSW Only
3	Photo+Time (TC)	10	TC+(RSW+SWP)
4	TC+RSW (<i>Remote Switch</i>)	11	TC+(RSW-OVR)
5	PC+TC+RSW	12	PC+(RSW-OVR)
6	PC+(RSW-OVR-30)	13	TC+PC+(RSW-OVR)
7	(TC+RSW)+SWP		

1.4 ZONE CONFIGURATION DESCRIPTION

From the Main-Page click on the [Zone Configuration Description] tab near the bottom of the Web page. The following table will be displayed which describes the configuration details. Press the [Main] tab to return to the Main web page.

LIGHTING CONTROL WEB PAGE MONITOR

PLC-Multipoint, Inc.
Ver: 08-30-10

Zone Configuration Descriptions

ZONE CONFIGURATION	-- TYPE --	-- INITIATION --	-- END CONTROL --
1 -- Photo Only	Continuous photo control.	Photo control On.	Photo control Off
2 -- Time(TC) Only	Time Clock schedule control.	Time clock schedule On.	Time clock schedule Off
3 -- Photo+Time(TC)	Photo Control and Time Clock schedule.	Clock enabled, followed by photo control On.	Time clock schedule Off
4 -- TC+RSW	Time Clock and RSW.	Clock enabled, followed by remote switch On.	Time clock schedule Off
5 -- PC+TC+RSW	Time Clock and PC and RSW	Photo & clock enabled, followed by remote switch On.	Time clock or photo Off
6 -- PC+(RSW-OVR-30)	Photo Control with 30 min RSW Override.	Photo control or remote switch On	Photo control or remote switch Off
7 -- (TC+RSW)+SWP	Time Clock and RSW with End of Day Sweep.	Time clock enabled, followed by remote switch On.	Time clock schedule Off
8 -- PC+TC+(RSW+SWP)	Photo Control and Time Clock with End of Day Sweep.	Time clock enabled, followed by photo control On.	Time clock schedule Off
9 -- RSW Only	Remote switch only.	Remote switch On	Remote switch Off
10 -- TC+(RSW+SWP)	Time Clock with Sweep. RSW is disabled during TC On.	Time clock schedule On	Time clock schedule Off
11 -- TC+(RSW-OVR)	TC with continuous RSW override.	Time clock schedule or remote switch On	Time clock or remote switch Off
12 -- PC+RSW+OVR	PC with maintenance RSW override	Photo control On	Photo control Off
13 -- TC+PC+(RSW-OVR)	TC and PC with continuous RSW override.	Time clock schedule, photo control or remote switch On	Time clock schedule, photo control or remote switch Off

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1.5 RELAY OUTPUT STATE

Relay output state or output level for all 8 output relays is shown. As control inputs or photo level events occur, the output may change from a (1) or On to a (0) or Off state. Continuous output levels will be displayed as an Off for low levels or On for high levels. From the Internet browser application press the (F5) key to refresh and update the web page.

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1.6 OUTPUT OVERRIDE

Each of the 8 output relays can be forced to the On or Off position. The default position is (0) for auto operation. To force a relay output On, enter a 1 in the corresponding box and press the enter key. The corresponding relay will be activated On until a (0) is entered in the box. To force a relay Off, enter a (2) and press the enter key. All override boxes should be in their Auto or (0) state for automatic LPE operation.

1.7 RUN HOURS

The run hour's column will keep a running count of operational hours for each relay. When a relay is pulsed On, this event will start the run hours accumulator for that output. In contrast, as any relay is pulsed Off, this action will stop the On hours accumulation for the corresponding relay and start the Off hours accumulation. You can clear the run hours counter for any relay from the LPE screen.

1.8 ZONE TC OUTPUT STATE

Each of the zones within this lighting system has a separate time-clock schedule. These schedules do not have to be utilized if the zone is not configured for a time schedule. The default schedule setting for each zone is always on. The schedules can easily be incorporated by using the LPE LCD keypad or the Web-Page.

1.9 TIME CLOCK SELECTION

Each of the eight zones can have a unique time clock assigned. The assignment is configurable via the LPE or the Web-Page. There are a maximum of eight (8) time clocks with seven (7) schedules per clock.

1.10 PHOTO SENSOR SELECTION

Each of the eight zones can be configured to one of three photo sensors. The assignment is configurable via the LPE or the Web-Page. This system can have up to three separate analog photo sensors connected. The default Lighting Control System has a single CES sensor connected to input-1. Although each zone may have the same photo sensor connection, each zone has a unique photo control setting.

1.11 PHOTO SENSOR VALID

Each of the three possible photo sensors inputs has a valid sensor indication. A correct state is noted by a Valid text. An invalid display of Invalid is a result of either a sensor disconnection or a defective sensor that does not change its output voltage after 12 hours of operation. The default Lighting Control System has one CES sensor connected to input-1. Specific zone configuration can allow each of the eight zones to have specific set-points and operate separately from the same CES sensor.

Note: From the Internet browser application press the (F5) key to refresh and update the web page.

1.12 PHOTO SENSOR SETTINGS

The outdoor CES sensor in this system has a maximum calibrated set-point. The following table shows the factory calibration settings. The LPE Web-Page settings may be changed by entering a new value. Caution should be used when changing these set-points because this action will cause the sensor light level range to change. Specifically, the maximum setting defines the Sensor Input Fc limit which is incorporated in the Hilim and Lolim setpoints. The factory calibrated setting defines the actual calibrated light level where the sensor output voltage is 10vdc.

PHOTO SENSOR	SENSOR TYPE	SENSOR DESCRIPTION
CES	Indoor	10v @100 fc
CES	Outdoor	10v @250 fc
CES	Atrium	10v @1000 fc
CES	Skylight	10v @2000 fc

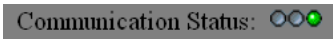
1.13 SENSOR TEST MODE

The default setting for this test case is (0). Changing the setting to (1) will result in eliminating the built-in photo delays that are incorporated into the photo-control. The following list defines the current settings. Normal operation should have the setting at (0). Photo-control delay times can only be changed from the LPE LCD screen.

DELAY	DESCRIPTION	TIME
Hold-on	High (On) to low (Off) delay	30 minutes
In-delay	Low (Off) to (On) delay	5 minutes (300 seconds)

Communication Status:

Anytime an entry is made and the keyboard Enter key is pressed, the status display should show a green led.



If there is a communication problem with the LPE the led will change to red.

2 TIME SCHEDULES WEB PAGE DESCRIPTION

From the Main-Page click on the [Time Clock Schedules] tab near the bottom of the Web page.

The Time Clock Schedules Web-Page provides the user the ability to change the default time clock schedule settings. To change a given schedule the following steps must be implemented.

1. Select the desired time-clock (1-8) in the **SELECT TIME CLOCK (TC):** Box and PRESS the Enter key on the browser keyboard. PRESS the (F5) key to refresh the screen which should now shows all clock schedules for the selected time clock. The displayed data is read-only.
2. In order to change a clock-schedule-time or day-of-week setting, perform the following steps.
3. Place a 1 in the **PLC-READ (0): Web-Write(1):** box by entering a 1 and then PRESS the Enter key. This action will initiate a 5 minute write enable timer for any schedule changes. This action also disables any schedule changes from the local PLC entry screen

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4. Select the desired schedule (1-7) in the **SELECT (TC) SCHEDULE No:** Box and PRESS the Enter key on the browser keyboard. The screen should also display the current TC schedule contained in the PLC. Remember the SCHEDULE No. must always be equal to the highest number of schedules used.
5. Navigate to the correct TC SCHEDULE column to make any changes to that specific schedule. PRESS the Enter key after each change. PRESS the **(F5)** key to refresh the screen and verify any entry.
6. When all schedule changes are made, place a **0** in the **PLC-READ (O): Web-Write(1):** box and PRESS the Enter key.
7. Verify that all changes have been updated and correctly shown on the Web-Page.

NOTE: Only one schedule at a time can be updated based on the **SELECT (TC) SCHEDULE No:** Box entry.

3 INTERNET PROTOCOL ADDRESS SETTINGS

Web Page Internet Protocol (TCP/IP) Settings

Current IP address for the LIGHTING CONTROL SYSTEM Ethernet pCOWeb is:
<http://192.168.254.40>

To change the IP address:
Connect an Ethernet crossover cable from a PC to the RJ45 connector on the pCOWeb RJ45 plug.

Set the PC network IP address parameters to a different address. The final octet must be different:

IP: 192.168.254.41

Subnet: 255.255.255.0

No DNS server

No Gateway

The PC should now connect to pCOWeb home page:

<http://192.168.254.40/http/index.html>

The screenshot shows the pCOWeb information page with a navigation menu on the left and a main content area. The main content area includes a 'pCOWeb information page' header and three tables of variables: Digital Variables, Analog Variables, and Integer Variables. The left sidebar contains system information such as 'System is using: User parameters', 'Firmware Release: AL-3.4-070121 - DL2.1', 'Mac Address: 00:0a:5c:10:07:a7', and 'pCOWeb's date: 1970-01-01 00:10'. There is also a 'W3C HTML 4.01' logo.

Var Idx	Digital Variables															
1-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46-60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61-75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76-90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91-105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106-120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121-135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136-150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
151-165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
166-180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
181-195	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
196-207	0	0	0	0	U	U	U	U	U	U	U	U	U	U	U	-

Var Idx	Analog Variables															
1-15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31-45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91-105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106-120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121-135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	U	U	U	U	U	U	U	U	U
136-150	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
151-165	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
166-180	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
181-195	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
196-207	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	-

Var Idx	Integer Variables															
1-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-30	0	0	0	0	0	-52	-50	-74	-74	-74	150	0	0	0	0	0
31-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46-60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61-75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76-90	0	0	0	0	0	0	0	0	0	0	15	10	7	24	8	8
91-105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106-120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121-135	0	0	0	0	0	0	0	U	U	U	U	U	U	U	U	U
136-150	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
151-165	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U

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To connect to the LIGHTING CONTROL SYSTEM pCOWeb configuration page enter:
<http://192.168.254.40/config/adminpage.html>

The logon ID is: **admin**
The password is: **fadmin**

Press the Configuration box, and then press the Network tab.

Change the IP and Netmask address to a desired address.

Press the Submit box followed by pressing the Reboot button.

Wait ~3 minutes prior to attempting a new log-in to the Web page.

4 WEB PAGE PASSWORD SETTINGS

To change the User Web-Page password:

Connect an Ethernet crossover cable from a PC to the RJ45 connector on the LIGHTING SYSTEM pCOWeb RJ45 plug.

To connect to the configuration page via internet browser enter:

<http://192.168.254.40/config/adminpage.html>

The logon ID is: **admin**

The password is: **fadmin**

Click on the [Configuration] selection.

The screenshot shows the 'pCOWeb information page' with a sidebar menu on the left containing: Information, Configuration, Clock and Logger, Events, Tests, Customer Site, and Info & Contact. The main content area displays three tables of system variables:

Var Idx	Digital Variables															
1-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46-60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61-75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76-90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91-105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106-120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121-135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136-150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
151-165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
166-180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
181-195	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
196-207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

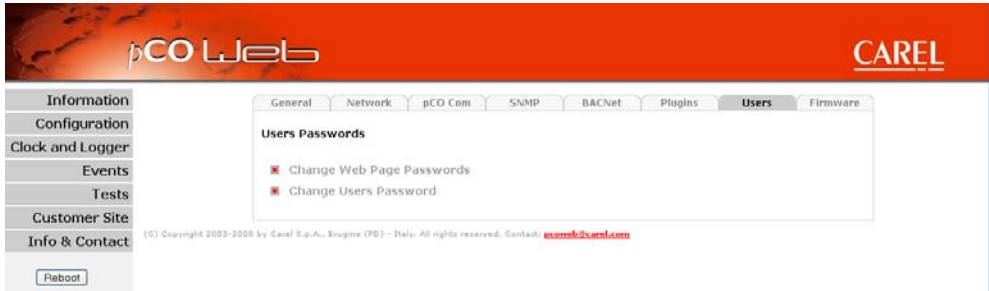
Var Idx	Analog Variables															
1-15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31-45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91-105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106-120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121-135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136-150	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
151-165	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
166-180	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
181-195	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
196-207	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U

Var Idx	Integer Variables															
1-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-30	0	0	0	0	0	0	-52	-50	-74	-74	150	0	0	0	0	0
31-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46-60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61-75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76-90	0	0	0	0	0	0	0	0	0	0	15	10	7	24	8	8
91-105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106-120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121-135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136-150	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
151-165	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U

Select the [Users] Tab

The screenshot shows the 'Users' configuration page in the pCOWeb interface. The sidebar menu is the same as in the previous screenshot. The main content area has tabs for: General, Network, pCO Com, SNMP, B&CNet, Plugins, Users, and Firmware. The 'Users' tab is selected, showing 'System Information' with options to view disk space, bootswitch parameters, and network configuration. Below that are 'Flash Utilities' (Fix HTML pages and CGIs rights, Delete all user files and settings) and 'HTTP server' (Change HTTP server options). A copyright notice at the bottom reads: '© Copyright 2007-2009 by Carel S.p.A. - Brugine (PD) - Italy. All rights reserved. Contact: cs@carel.com'

Select the [Change Web Page Passwords] selection.



Select the [pCOWeb Main] selection.

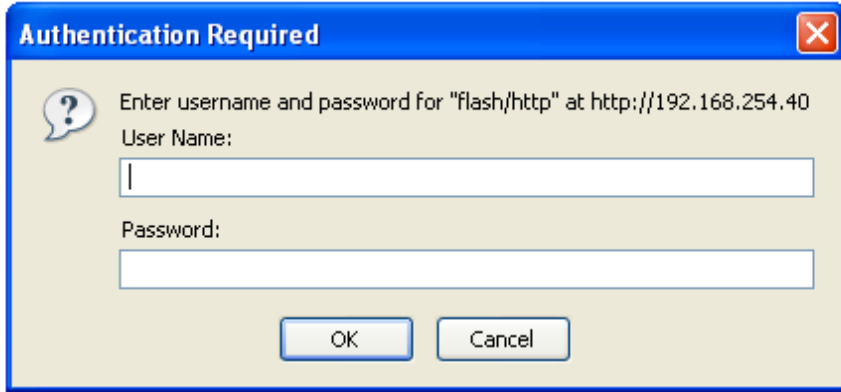


Enter the necessary [Username] and [Password], Press the [Submit] button to update any changes.



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Exit the internet browser when finished.
Subsequent connections to the LIGHTING CONTROL SYSTEM Web page will result in the following dialog request.



Enter the appropriate User Name and Password to Log-in.