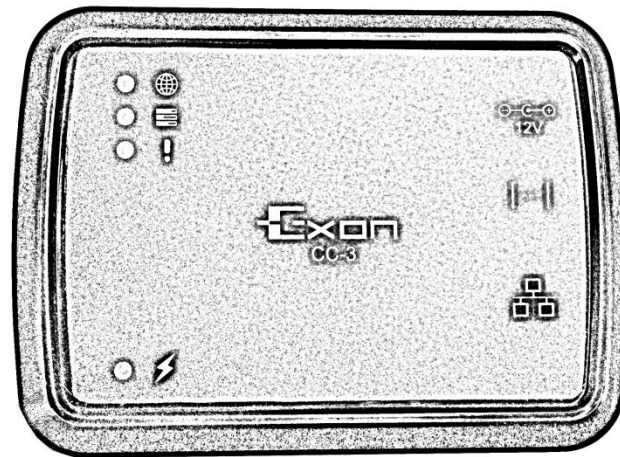





**Internet CC-3 counter configuration for SQL server via an on-line
panel with data format description**





Drawing.1 - Screenshot showing a login form to a configuration panel

CC-3 Counter

Report

From:

1 01-01-2016

To:

2 01-01-2016

Resolution:

3 Hour

4 Generate

5 Total: 0

6 In: 0

7 Out: 0

8 Live: 0

9 Device ID: sql000

10 Password:

11 Enter

contact@myexon.com
poczta@myexon.pl

©Exon Sp. z o.o.

www.myexon.com
www.myexon.pl



Description of items marked on drawing:

Print-screen showing logging-in to the administration panel of the device.

1. First day for which the report in CSV file will be generated.
2. The last day for which the report in CSV file will be generated.
3. Report resolution choice. Four resolution types are available:
 - a) monthly – the report will have a monthly resolution within the scope of dates chosen from a calendar
 - b) daily – the report will have a daily resolution within the scope of dates chosen from a calendar
 - c) hourly - the report will have an hourly resolution within the scope of dates chosen from a calendar
 - d) standard – the report will have a minute resolution within the scope of dates chosen from a calendar
4. Report generating button. After pressing it the device shall automatically prepare a CSV file for the given period of time. The file shall be downloaded and saved on a computer or a mobile device.
5. The 'total' counter shows the number of persons that were recorded by the counter since the last counter restart (see point 38)
6. The 'in' display shows the number of persons that entered the site. This counter is zeroed everyday at midnight. Displayed only if the device is operating in a directional mode (point 37)
7. The 'out' display shows the number of persons that exited the site. This counter is zeroed everyday at midnight. Displayed only if the device is operating in a directional mode (point 37)
8. The 'live' counter shows the difference between the numbers shown by the 'in' and 'out' counters, it shows the number of persons currently inside the site. Displayed only if the device is operating in a directional mode (point 37).

9. Unique device ID number being always a six-sign mark including digits, small and capital letters. This number is given by the manufacturer.

10. In order to get access to the administration panel of the device you must enter a password that was supplied with the device.

11. After entering the correct password in box number 10 click this button in order to log-in to the administration panel



Drawing.2 - Screenshot showing configuration panel

CC-3 Counter

[LOGOUT]

Report

From:
01-01-2016

To:
01-01-2016

Resolution:
Hour

Generate

Total: 0

In: 0

Out: 0

Live: 0

Database settings

Address:
12

Port:
13

Database name:
14

User:
15

Password:
16

Frequency (min):
5

Resolution:
Hour

Driver:
Oracle 12.0.4.0 64bit

Submit

20

Working hours

Mon: 00 : 24

Tue: 00 : 24

Wed: 00 : 24

Thu: 00 : 24

Fri: 00 : 24

Sat: 00 : 24

Sun: 00 : 24

Submit

21

22

Radio

Radio:
23

Channel:
41

Submit

24

25

Next page

26

contact@myexon.com
poczta@myexon.pl

©Exon Sp. z o.o.

www.myexon.com
www.myexon.pl



Description of items marked on drawing:

12. The box in which you should be enter the IP of the SQL server to which the counter will report the count results, for example: 192.168.0.101

13. The box in which you should be enter the port of the SQL server on which connections are listened (default 21), for example: 21

14. Box in which you should enter the name of the database to which the counter will be reporting the count results

15. Box in which you should enter the user name that was created especially for the counters in the above mentioned database

16. Box for entering the password ascribed to the user account from point 15

17. This button allows to choose the reporting frequency. The counter will check if it has any data ready to be sent to the server at time intervals specified by this parameter. The device will not send results from the time period specified in point 18, meaning that if hourly resolution is set a report from the ongoing hour will not be sent. The device never connects to the data base if there is nothing to report.

18. Report resolution selection, there are 3 possible resolutions:

a) minute

b) hourly

c) daily

The counter will automatically total the barrier interruption results and barrier errors according to this parameter. Restarts are always reported with minute-level accuracy.

19. Selection of data base driver and its version.

20. Confirms the data base connection configuration and saves it in the device. For the device to use new data you must restart the device. For this press button number 41 described in Drawing 3

21. Window for setting the hours of work for the device. Barrier interruptions that occur outside the set time parameters will be ignored. Barrier errors and reboots will still be recorded. Unclicking the box by the given day will cause the counter not to register the barrier interruptions on that day. For example: checking the "Fri" box and setting the time for '09' to '22' will result in the counter recording interruptions only on Fridays from 9:00 to 21:59

22. Operation hours settings are saved in the device's memory. For the device to use new data you must restart the device. For this press button number 41 described in Drawing 3

23. Checking this option causes the counter to operate in radio mode. In such case it is required to use the wireless sensors supplied by the manufacturer. The counter will not work with wireless sensors of other companies. Counter operating in radio mode should not have the wired barrier connected

24. This box is used for the choice of the channel on which the counter will listen to signals from wireless sensors. Default value is 41

25. Saves radio settings in device's memory. For the device to use new data you must restart the device. For this press button number 41 described in Drawing 3

26. Move on to another settings page.



Drawing.3 - Screenshot showing configuration panel

CC-3 Counter

35 [LOGOUT]

Report

From:
01-01-2016

To:
01-01-2016

Resolution:
Hour

Generate

Total: 0

In: 0

Out: 0

Live: 0

27 IP address

28 DHCP: ☒

28 IP:

29 Gateway:

30 Mask:

31 Submit

32 Physical address

33 Static MAC: ☐

34 Submit

36 Other

37 Buzzer: ☒

38 Directional: ☒

39 Clear: ☐

Clear hour: 00

40 Submit

41 Reboot

42 Upload

Previous page

43

contact@myexon.com
poczta@myexon.pl

©Exon Sp. z o.o.

www.myexon.com
www.myexon.pl



Description of items marked on drawing:

27. Checking this box will cause the counter to operate in DHCP mode, that is the Ethernet interface will have an IP number granted by the router. Unchecking will result in the counter trying to configure its IP number according to settings from position 28, 29 and 30

28. Constant IP number that the counter should assume, for example: 192.168.1.101

29. Address of the default gate in the network to which the counter is attached, example 192.168.1.1

30. Subnetwork mask to which the counter is attached, for example 255.255.255.0

31. Saves DHCP settings in the device's memory. For the device to use new data you must restart the device. For this press button number 39 described in drawing 3

32. Box for the choice of MAC address

a) when unchecked – at every start up the counter will assume a random MAC address.

b) when checked - the counter will assume the MAC address from box 33

33. MAC address for the Ethernet interface of the counter, separated by colons, for example: 22:00:11:33:44:55. NOTE! The first octet must be a number for which the logical conjunction operation with number 3 must have the result of 2, for example 22 in the hexadecimal system

34. MAC settings are saved in the device's memory. For the device to use new data you must restart the device. For this press button number 41 described in drawing 3

35. Button for logging out from counter settings, returns to home page

36. Window for change of buzzer settings. When checked: each time the barrier is interrupted a short sound signal is given

37. Window for the choice of counter operation mode. When checked the counter operates in directional mode. NOTE! directional counter operation requires connection of appropriate sensors.

38. Window for the choice of "total" counter zeroing hour. If checked the "total" counter (point 5) will be zeroed at the time specified in point 39

39. The "total" counter zeroing hour (point 5)

40. Save the settings from points 36-39. For the device to use new data you must restart the device. For this press button number 41 described in drawing 3

41. Restart the device. For the device to use new data you must restart the device.

42. Button allowing to send the counter settings data to the database. Before proceeding with configuration wait (up to 30 seconds) for the message about success or failure

43. Return to previous settings page

NOTE! Every day, between 00:00, and 01:00 the counter connects to the database and overwrites the local settings with those from the database, this allows for easy configuration of a larger number of devices.

Description of configuration through the SQL server

The counter may be configured through the SQL server, this allows to change the settings of a larger number of devices at once, for example to give them the same operating hours.

Configuration description at the example of Oracle database server:



1. Constant IP In order for the counter to always assume a constant IP the DHCP field should be set to value '0', while ip, mask and gateway fields to appropriate values, chosen by the user, for example respectively: '192.168.1.101', '255.255.255.0', '192.168.1.1'. For example: in order to give a constant IP to a counter with the use of DHCP the DHCP box should be set with value '1', there is no need to zero the IP, mask or gateway boxes, for example:

2. Constant MAC The Ethernet interface has no default constant MAC number and it is changed each time when the device is restarted. In order to set a constant MAC address it should be input in the mac box, for example:

Counter with ID number will have a physical address given to it with the number 22:22:22:22:22:22. In order to return to the default mode (no constant MAC) put null value in the above mentioned box. The above address format should be kept, that is 6 octets in w hexadecimal system divided by colons, while it should be noted that the first octet (in this case with value 22) to be in logical conjunction with number 3 and give the result = 2.

3. Buzzer In order to turn on the buzzer signalling every barrier interruption, value '1' should be put in the 'Buzzer' box, to turn it off put '0', for example: UPDATE Counter SET buzzer = '1' WHERE CounterId = '000000';

4. Radio In order to configure the counter for work with wireless sensors put value '1' in the 'Radio' box and set the 'channel' box to the value referring to the channel on which the sensors are broadcasting (default value is 41). In order to turn the radio mode off put value '0' in the 'Radio' box, there is no need for zeroing the 'channel' box, for example:

5. Directional mode In order for the counter to operate in directional mode set the value in 'Directional' box to '1', in order for it to operate in without direction differentiation put value '0' in that field.

NOTE! Operation in directional mode is available only for wired sensors, for example:

6. Visit counter reset In order to reset the 'Total' counter from the user panel everyday at a specified time the value of 'Clear' box should be set for a chosen time, if the counter is not to be zeroed put null value in that box, for example: A command can cause the 'Total' counter to be zeroed everyday at 21.00.

7. Counter operation hours In order for the counter to ignore the barrier interruptions outside the site opening hours the appropriate pair of 'from' and 'to' boxes should be set to values reflecting the site opening hours, for example: Set the counter operation time for Wednesday, from 8 to 22. Names of boxes come from English three-letter abbreviations of days of the week (Mon, Tue, Wed, Thu, Fri, Sat, Sun). Setting the boxes to null value will result in the counter ignoring all barrier interruptions on the given day.

NOTE!

1. After the settings are complete make sure you commit the changes.
2. Everyday between 00:00 and 01:00 and each time after device reboot the counter automatically compares its settings saved in the internal memory with settings from the SQL server. If any changes are detected the device will operate according to SQL server settings and will overwrite the configuration saved in the counter's memory with the data taken from the server, then the device will automatically turn on.

Note!

Make sure to adjust counter's time zone according to counter's location. From the first checkbox select a continent you are on, then from a second select a city which is the closest to you and has the same time zone. Daylight saving time zone changes will be adjusted automatically.