

NAUCON-1000 USER MANUAL

SETTING UP THE NAUCON-1000

- 4 Getting to know your NAUCON-1000
- 5 Indicator icons
- 6 Start setting up your NAUCON-1000
- 6 General setup
- 8 Advanced setup
- 9 Service menu
- 14 Board zones setup

SETTING UP SPORT

- 18-19 Basketball
- 20-21 Handball
- 22 Volleyball
- 23 Ice hockey
- 24 Tennis
- 25 Floorball
- 26 Futsal
- 27 Bandy
- 28 Soccer
- 29 Mini hockey
- 30 Boxing
- 31 Water polo
- 32 American football
- 33 Basket 3X3
- 34 Netball
- 35 Inline hockey
- 36 Wrestling
- 37 Interval training
- 38 Squash/Badminton
- 38 Baseball

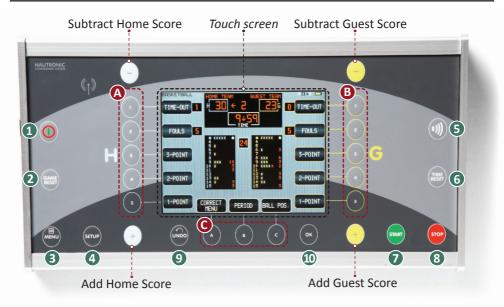
EXTRA SCOREBOARD FEATURES

40 Edit team lineups 41 Correct menu Results showing on an A-H board 42 Side console setup 42 43 Total reset How to check the software version 44 Updating the NAUCON-1000 software 45 Import/Export settings 47

TROUBLE SHOOTING

- Trouble shooting 48
- Diagnostics menu 49
- Diagnostic troubleshooting guide 50

Getting to know your NAUCON-1000



On/off

Turn the NAUCON-1000 on and off. When turning off the control panel you must confirm by pressing **ACCEPT** on the touch screen.

2 Game reset

Reset display, you must confirm by pressing **ACCEPT** on the touch screen.

Menu

A menu on the touch screen will show (Fig. 1, page 6).

Setup

A menu on the touch screen will show.

A ment

Press to blow the horn.

6 Time reset

6 Manual horn

Resets time and sets next period time. You must confirm by pressing **ACCEPT** on the touch screen.

3 Start

Game clock starts.

Stop

Game clock stops.

• Undo
• Output
•

Undo the latest change.

10 OK

Confirm any changes made to the setup.

ABC

You can also use the click buttons referring to the buttons on the touch screen.

- Wireless communication
- Home
- Guests

Indicator icons

THE INDICATOR ICONS will show in the top right corner of the touch screen. Except in the setup menus.



d£. Automatic horn on

鉄 Automatic horn off

Battery fully charged

Battery working

Battery charging

Battery low

Battery really low - charge now!

(CBATTERYLOW!) Battery critically low – charge now!

All zones active

Multiple zones active

All zones disabled

Zone 1-4

(COLLISION!)

COLLISION - another NAUCON-1000 is transmitting in the same zone.

*Change or disable zones. See more on page 7.

*Note you might see the flashing collision warning even when all zones are turned off.

Start setting up your NAUCON-1000

When starting your NAUCON-1000 it will start up in a default sport. If setting up for the first time the NAUCON-1000 will start in basketball. To exit the sport press the MENU click button on the console and then press EXIT SPORT.

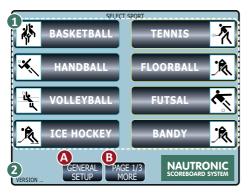


Fig. 1 – Select sport

Fig. 1 – Select sport:

Select sport

The choices of sports are listed in a menu – to scroll the menu press PAGE 1/3 MORE. Choose a sport and you are ready to start/setting up.

2 Version ...

Shows the latest version of software installed on the NAUCON-1000 unit.

Fig. 1 – Bottom buttons:

General setup

Enter GENERAL SETUP menu. For details see the section, starting below.

B Page 1/3 more

Press PAGE 1/3 MORE to scroll the pages in the menu.

General setup

In this part of the manual you can learn more about the general setup of your NAU-CON-1000. You can enter the **GENERAL SETUP** menu from the **SELECT SPORT** menu.



Fig. 2 - General setup menu, page 1/2. The bottom buttons are elaborated on the next page.

Fig. 2 – General setup "Page 1/2":

- **1** Date, year and time of day You can change the day, month, year and time of day. Once set, the NAUCON-1000 unit will transmit the changes to the Scoreboard. It will now receive time, date and year information from the main scoreboard. The NAUCON-1000 does not have a built-in timer.
- 2 Language Scroll through the various languages.
- 3 Start-up sport Set the default START-UP SPORT.

Text flow direction

Adjust the direction of the rolling text line. LEFT or RIGHT.

5 Board zone selection menu

Turns the zones ON and OFF. As default, all zones are on. If another NAU-CON-1000 are transmitting in the same zone, they might interfere.

6 Board info

The NAUCON-1000 starts searching for scoreboards in the activated zones.

- → If a scoreboard is turned on and connected to the NAUCON-1000, the addresse*1 from the scoreboard, sideboard, sideboard or shot clocks are displayed on the touch screen.
- *1An address is a reference number (10-69) in the BOARD ZONES SETUP menu, see page 14.

Fig. 3 - General setup "Page 2/2":



Fig. 3 – General setup menu, page 2/2

⑦ Board watch − on and off time

By default the clock on the board will start up at 07:00 and turn off again at midnight. You can change both settings.

Set the clock to be on **or** off at all time:

00:00-24:00: The clock is always on. 00:00-00:00: The clock is always off.

8 Key click

Turn ON or OFF a sound for the buttons on the touch screen or/and the physical click buttons on the console.

9 Backlight level

Adjusts the light intensity of the touch screen. 1 is lowest and 5 is highest intensity. Lower level will extend the battery performance.

Dimming timeout after keypress

Time before dimming the backlight on the touch screen (0-99 min.).

1 Dim backlight during game

Adjusts the light intensity of the touch screen during the game (0-99% of the backlight level).

Fig. 3 and 4 – Bottom buttons:

Cancel changes

Exists the setup menu without saving any changes made. A warning will appear before existing to the previous screen.

B Service menu

Enter the **SERVICE MENU**.

→ Please ask your local sales partner for a password to enter this menu.

G Page (1/2) 2/2 more

Press **PAGE** (1/2) **2/2 MORE** to scroll the pages in the menu.

D Default settings

Press **DEFAULT SETTINGS** if you want to return to the NAUCON-1000's default settings.

Accept changes

Press **ACCEPT** changes if you want to save your changes. You will then return to the **SELECT SPORT** menu.

Advanced setup

When you have selected a sport, you can press the **MENU** click button on the console which will bring you to the **EXTRA MENU** where you can change the advertising or export the game log to a USB stick. (Fig. 4)



Fig. 4 – Extra menu

Fig. 4 – Screen called Extra menu:

• Edit advertising

Editing the advertising string (max. 1.000 characters). When pressed, you will get a new screen with a keyboard (as in Fig. 36, page 40). The advertising text will show in the HOME/GUEST team text display.

2 Advertising

Toggles between HIDE and SHOW advertising on the scoreboard. Default is HIDE.

3 Import advertising

Insert a USB stick with a CSV file*1 containing your text and press IMPORT ADVERTISING.

4 Game log export to USB

Insert a USB stick to export a CSV file.*2 and press **GAME LOG EXPORT TO USB**. The file contains log from when the console was turned on.

*1+2 A CSV file is a Comma Separated Values file.

5 Team lineup

Toggles between HIDE and SHOW lineups on the scoreboard. Default is HIDE.

6 Advanced advertising

You can edit 4 strings and set them as still text (max. 32 characters) or rolling text (max. 1.000 characters).

Fig. 4 – Bottom buttons:

A Return to sport

You will return to the sport you have already chosen. Changes made will take effect.

B Exit sport

You will return to the menu (Fig. 2) where you can select sport or enter GENERAL SETUP MENU.

Service menu

From the **GENERAL SETUP MENU** (see page 6) you can access the **SERVICE MENU**. Insert 1166 as password on the onscreen keyboard to get access to the **SERVICE MENU**.

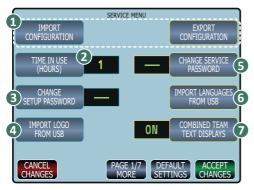


Fig. 5 – Service menu "Page 1/7"

Fig. 5 - "Page 1/7":

1 Import/export configuration Choose either to import or export configurations from/to a USB stick.

To import a saved configuration-file, (config.csv): Insert a USB stick and press IMPORT CONFIGURATION.*1

To export the configuration from the NAUCON-1000 to a USB stick: Insert a USB stick and press **EXPORT** CONFIGURATION.*2

*1+2 A screen will show with the following text: "PLEASE WAIT!! IMPORTING/ **EXPORTING CONFIGURATION TO USB** DRIVE." The import/export is done when the NAUCON-1000 returns to the SERVICE MENU.

2 Time in use (hours)

This displays the hours the NAU-CON-1000 unit has been in use since last charge.

3 Change setup password Enter a new four digit code for the SET-UP MFNU.

Default password is 0000 (No password).

Import logo from USB

To import a new start-up logo and mini-logo: Insert a USB stick with the logos*3 and press IMPORT LOGO FROM USB. A screen will show with the following text: "PLEASE WAIT!! IMPORTING LOGO FROM USB DRIVE." The import is done when the NAUCON-1000 returns to the SERVICE MENU.

*3 LOGO REQUIREMENTS:

→ Start-up logo – must be: 320 x 240 pixels, 24 bit bmp-file. Filename must be: logo.bmp

→ Mini logo – must be: 100 x 40 pixels, 24 bit bmp-file. Filename must be: minilogo.bmp

5 Change service password Enter a new four digit code for the SER-VICE MENU

Default password is 1166.

6 Import languages

To import new languages to the NAU-CON-1000 unit: Insert a USB stick with a supported language file supplied by Nautronic a/s and press IMPORT LAN-GUAGE.

A screen will show with the following text: PLEASE WAIT!! IMPORTING LAN-GUAGES FROM USB DRIVE.

The import is done when the NAU-CON-1000 returns to the service menu.

• Combined team text displays

ON: The home and guest team's text shares the same display.

OFF: Fach team text has its own text display.



Fig. 6 – Service menu "Page 2/7"

Default is ON.

Fig. 6 – "Page 2/7":

3 Team text display length

You can edit the length of the team text displayed on the scoreboard. Default is 20 characters. (Depends on your score-Board type)

9 Show score by

The rolling text in the text line writes "SCORED BY <NAME>". Default is ON.

Show previous sets in ...

Choose between four possible places, where previous sets can be shown. Default is SCORE.

SCORE: The previous set scores are shown in the upper player scores in the side scoreboards.

NO.: The previous set scores are shown in the upper player numbers on the side scoreboards.

MAIN: The previous set scores are shown in the main scoreboard.

SEP.: The previous set scores are shown in seperate section.

• Merge player no. in player text display ON: Both player name and number will be shown in the text display.

OFF: Only the player name will be shown in the text display.

Default is OFF.

- Left alian auest team text Align the text in GUEST display to the left. Default is OFF and therefore aligned to the right.
- **13** Use game horn for shot clock Enable or disable the use of the main scoreboard's horn for shot clocks. Default is OFF.
- Merge 2^xminor penalty (2+2=4) Enable or disable the adding of penalties. When enabled, the penalties are added instead of being shown separately.*4 Default is OFF.
 - *4 Example: If enabled and two 2 minutes penalties are given, the digit will show 4 (2+2=4), instead of 2 minutes followed up by another 2 minutes.
- Show player foul middle section ON: When a player foul is given, it shows in the middle section of the scoreboard for 15 seconds and then only team fouls will show.

OFF: Only team fouls will show.

Default is ON.

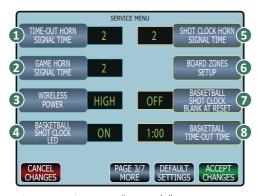


Fig. 7 – Service menu "Page 3/7"

Fig. 7 - "Page 3/7":

- Time-out horn signal time Changes the length of the automatic horn blowing when pressing time-out in an ongoing game. Default is 2 sec.
- Game horn signal time Changes the length of the automatic horn blowing at the end of a game. Default is 2 seconds.
- 3 Wireless power

Choose between four settings regarding wireless power: OFF, LOW, HIGH and BOOST. The wireless range of the NAU-CON-1000 will then be adjusted.

OFF: Radio power off, wired only.

LOW: Minimum power.

HIGH: Maximum power.

BOOST: Used for test-purpose only.

Default is HIGH.

Basketball shot clock led

ON: The shot clock led stripe turns on when the shot clock runs out.

OFF: The shot clock led stripe is disabled.

Default is ON.

- 5 Shot clock horn signal time Change the length of the automatic horn blowing when the shot clocks countdown runs out. Default is 2 sec.
- 6 Board zones setup This is where you enter the board zone setup. See a more detailed description on page 14.
- Basketball shot clock blank at reset ON: The shot clocks will show as blank/ black until the game starts.

OFF: The shot clocks will show 24, if set according to the 24 second rule.

Default is OFF.

3 Default time-out time for: Baskethall: 1 min.



Fig. 8 – Service menu "Page 4/7"

SERVICE MENU BANDY TIMEOUT TIME VOLLEYBALL 0:30 0:30 TIME-OUT TIME VOLLEYBALL TECH TIME-OUT TIME WATER POLO TIME-OUT TIME 1:00 1:00 AM. FOOTBALL TIME-OUT TIME AM. FOOTBALL INVERT TIME 1:30 BASKETBALL 3X3 TIME-OUT TIME NETBALL TIMEOUT TIME 0:30 1:00 CANCEL CHANGES SETTINGS CHANGES

Fig. 9 – Service menu "Page 5/7"

Fig. 8 – "Page 4/7":

9 Default time-out time for:

Basketball Euroleague:	30 sec.
Handball:	1 min.
Futsal:	1 min.
Minihockey:	30 sec.
Floorball:	30 sec.
Ice hockey:	30 sec.
Inline hockey:	30 sec.

Basketball extra shot clock digit You can set the shot clocks to count down for the last 5 sec. Default is OFF.

Fig. 9 – "Page 5/7":

1 Default time-out time for:

Bandy:	30 sec.
Volleyball tech:	1 min.
Am. football:	1:30 min.
Basketball 3x3:	30 sec.
Volleyball:	30 sec.
Water polo:	1 min.
Netball:	1 min.

• Am. football invert timeout You can choose how the timeouts

should be shown.

ON: The timeouts will be shown when used.

OFF: All timeouts will be shown but removed when used.

Default is ON.

Fig. 10 - "Page 6/7":

1 Test menu

Testing the function of the characters on the scoreboard.

How to test it:

Press **TEST MENU** and note the red number showing in the small display and the characters on the scoreboard.

The numbers are referring to the board:

- 1 All the diodes on the scoreboard should light up.
- 2 All numbers on the scoreboard are counting up.
- 3 Checking if all addresses referring to the digits are working.
- 4 Text displays turn fully ON, one line at a time.

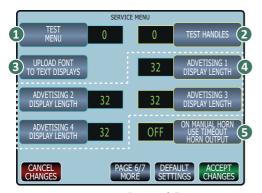


Fig. 10 – Service menu "Page 6/7"

2 Test handles

Press a button on the handle connected. to the NAUCON-1000. There are several kinds of handles. Note the number showing in the small display on the touch screen.

The numbers should be:

- **1** Start game time
- 2 Stop game time
- 3 Start/stop shot clock time
- 4 Reset shot clock time
- **34** Time 2
- 3 Upload font to text displays i.e. language Insert a USB stick with a CSV file containing the language that appears in the advertisement/text display and press the button. Note: You can not change the actual font.
- 4 Advertising (1-4) display length Set the length of the advertising text showing on the scoreboard. Default (and maximum) are 32 characters.
- **5** On manual horn use timeout horn output It is possible to use the timeout horn output when pressing the manual horn button, Default is OFF.

Fig. 11 - "Page 7/7":

1 Change protocol

Changes the communication protocol for scoreboards. Default is NG12.



Fig. 11 – Service menu "Page 7/7"

NG12: For NA/NHA/NC/NE scoreboards from 2012 and forward.

NG08: For NT/NS/NB/NQA/NW scoreboards from 1998 and forward.

If set to NG08:

- → It can only communicate with wired scoreboards.
- → Some features in the NAUCON-1000 are disabled.
- → The wireless power will automatically be set to OFF.

2 Scroll text on events

ON: The scroll text will be shown on the text lines.

OFF: No scroll text will be shown on the text lines.

Default is ON.

3 License accepted

ON: indicates that the license has been accepted.

OFF: If set to off the license will be shown the next time the NAUCON-1000 will be turned on.

4 Handball enable transfer penalties Enable or disable the possibility to transfer the penalty to the team from a player that already have a active penalty.

Default is OFF.

Board zones setup

HOW TO CONFIGURE one or more NAUCON-1000. Go to the BOARD ZONES SETUP menu from the SERVICE MENU. See how to get there on page 9.

ZONES DESCRIPTION

A zone is a group of scoreboards that are controlled by the same NAUCON-1000. Fach zone has a color:



The addresses shown on the touch screen are used as identification of the scoreboard in a chosen zone. It is the zone selection that determines which scoreboards are receiving communication.

BOARD ZONE SELECTION: Please contact Nautronic at service@nautronic.com and include serial number and scoreboard model type. Type "Zone config" in subject.

CONFIGURING THE ZONES IN THE NAUCON-1000

If multiple wireless or wired scoreboard systems are installed in the same arena, you must configure BOARD ZONE SETUP and BOARD ZONE SELECTION

It is possible to have up to four independent scoreboard systems each with a NAUCON-1000 control panel in the same arena.

If using more than 4 the scoreboards must be wired.

If more than one scoreboard is placed in the same arena each must have a unique address - learn more on page 15.

WHEN CONFIGURING THE BOARD

ZONES SETUP → the scoreboard must be turned on, as the NAUCON-1000 transmits the information to the scoreboard.



BOARD ZONE SELECTION MENU:

→ vou toggle between ON and OFF for each zone. The NAUCON-1000 will only control scoreboard systems in zones set to ON. All zones are ON as default. Enter the **BOARD ZONE SELECTION MENU from** GENERAL SETUP MENU.

STANDARD SCOREBOARD ADDRESSES/ REFERENCE NUMBERS Default is 51.

LOCATE THE SCOREBOARD'S ADDRESS:

- → In the bottom of the board beside the power-connector – the address number is written on a silver-colored label.
- → The address of the scoreboard is also displayed in the HOME score, when the scoreboard is powered on.
- → The address of the scoreboard can also be displayed through the NAU-CON-1000 BOARD DIAGNOSTICS MENU, this requires that the scoreboard address is set to a zone in the BOARD ZONES SETUP menu.

ASSIGN AN ADDRESS TO A ZONE

Each scoreboard address is assigned to a zone. Press the address number until it has the color of the desired zone. When pressing ACCEPT*2

the new board zone information is transmitted to the highlighted scoreboard addresses.

*2The scoreboard must be turned on and within range of the NAUCON-1000 when pressing **ACCEPT**.

CONFIGURING ZONE(S)

To set up four scoreboards each with their own NAUCON-1000, as Fig. 14, follow the description on page 14.

USE THE SAME PROCEDURE WHEN SETTING UP ONE. TWO OR THREE NAU-**CON-1000 CONTROL PANELS.**

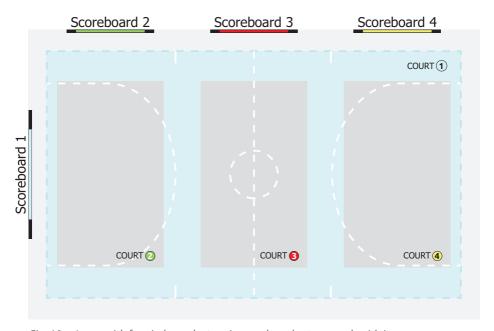


Fig. 12 – Arena with four independent main scoreboard setups, each with its own NAUCON-1000. Described on the following page.

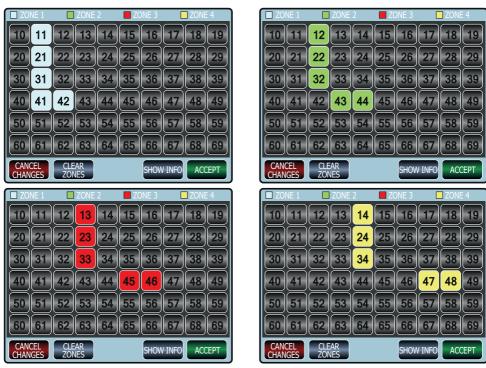


Fig. 13 – Zones setup for four individual NAUCON-1000. Scoreboards with three sideboards and two shot clocks. Referring to the drawing, Fig. 12 on the previous page.

Scoreboard 1 - blue, zone 1

Address 11 is configured to function in Zone 1 on court 1.

IE. ADDRESS NO. IS REFERRING TO:

11: Main scoreboard

21: Home sideboard

31: Guest sideboard

41 & 42: Shot clocks

Scoreboard 2 – green, zone 2

Address 12 is configured to function in Zone 2 on court 2.

IE. ADDRESS NO. IS REFERRING TO:

12: Main scoreboard

22: Home sideboard

32: Guest sideboard

43 & 44: Shot clocks

Scoreboard 3 - red, zone 3

Address 13 is configured to function in Zone 3 on court 3.

IE. ADDRESS NO. IS REFERRING TO:

13: Main scoreboard

23: Home sideboard

33: Guest sideboard

45 & 46: Shot clocks

Scoreboard 4 - yellow, zone 4

Address 14 is configured to function in Zone 4 on court 4.

IE. ADDRESS NO. IS REFERRING TO:

14: Main scoreboard

24: Home sideboard

34: Guest sideboard

47 & 48: Shot clocks

If only one NAUCON-1000 is set up for four individual scoreboards, all of the above zones will highlight at the same time.



Floorball setup

Choose FLOORBALL from the SELECT SPORT MENU. Then press the **SETUP** click button on the console and you will see a menu like shown below, Fig. 19a.



Fig. 19a - Setup Floorball "Page 1/2"

Fig. 19a - "Page 1/2":

• Edit lineups

Choose either to edit HOME or GUEST team lineup. You will enter a screen where you can change the names and numbers of the players, see page 40.

2 Period time

Sets the length of a period. Default is 20 minutes

3 Break time

Sets the length of the breaks between periods. Default is 10 minutes.

4 Pre time

Sets the length of the pre time / the time counting down before the match. Default is 0 minutes

5 Extended period time

Sets the length of an extended period. Default is 5 minutes.

6 Count mode

Sets game clock to count DOWN or count UP. Default is UP.



Fig. 19b - Setup Floorball "Page 2/2"

Automatic horn

Turns the automatic horn ON or OFF. Default is ON.

Fig. 19b - "Page 2/2":

3 Player number selection

Choose whether scores and penalties are given to a specific player or to the whole team. Default is TYPF.

LIST: Choose player number from a list.

TYPE: Type player number.

OFF: Scores and penalties are given to the whole team

Max concurrent penalties

Sets the max of penalties (1-5). Default: 2.

Show sideboards

Turns the sideboards ON or OFF. Default is ON.

Periods

Sets the number of periods in the match. Default is 3.



Edit team lineups

When you have selected a sport, you can press the **SETUP** click button on the console. Change the lineups by pressing **EDIT HOME** or **GUEST TEAM LINEUP**, you will enter a screen like shown below (*Fig. 35*).



Fig. 35 – Edit home/guest team lineup

Fig. 35 – The editable boxes:

• Edit Home/Guest Team lineup Click on the "TEAM NAME"-box on the touch screen. You will enter a screen with a keyboard (Fig. 36) which allows you to change the text line.

Player name & number

Click on a **PLAYER NAME** on the touch screen. You will enter a screen with a keyboard (*Fig. 36*) which allows you to change the name. When pressing a player number you will get a numeric keyboard for changing the numbers (*00-99 or blank*).

The **MORE PLAYERS** ...-button toggles pages if more players than shown are available for a specific sport.

Fig. 36 – The interactive graphics:

3 Editable text field

When entering the keyboard you can start to type or you can clear text . Remember to save your changes by pressing **ACCEPT**.

4 Keyboard

Use the keyboard* to type names of the players. *Default keyboard is set to Western. Press the button marked with a D to change keyboard.



Fig. 36 – The text will show in red while editing

Fig. 35 & 36 - Bottom buttons

• Default names & no

When you press **DEFAULT NAMES & NO**, you reset the lineup and team name to the default text. You will have to confirm resetting before it takes effect.

USB import

You can import a list with player and team names from a USB stick. Insert the USB stick with a CSV file (Comma Separated Values file) and press USB IMPORT. Your lineups will be imported from the file. Contact your dealer for more information.

G USB export

You can export a list with players and team names to a USB stick. Insert a USB stick and press USB export. Your lineup will be exported to a CSV file (Comma separated values file).

• Keyboard

Choose between Western, Russian and Hebrew keyboard. For Arabic language please contact Nautronic.

G Clear text

Clears the text field.

Correct menu

CORRECT MENU is available in allmost all sports. From the menu on the touch screen it is possible to correct the ongoing game. You can subtract, adjust and decrease various input given. E.g. scores, fouls, sets and timer.



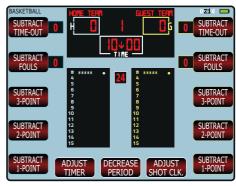
Basketball, control screen



Handball, control screen



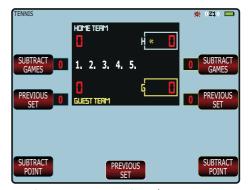
Tennis, control screen



Basketball, Correct menu activated



Handball, Correct menu activated



Tennis, Correct menu activated

Results showing on an A-H board

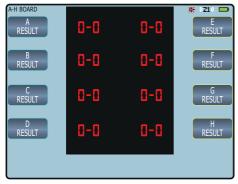


Fig. 37 – A-H Board, control screen

Choose A-H BOARD from the SELECT SPORT MENU. If you have an A-H board, the NAUCON-1000 unit allows you to display different match scores.

When you press one of the **RESULT** buttons (A-H RESULT) you will enter a numeric keyboard which allows you to change the given result (00-99).

The **SETUP** click button on the console has no function for A-H BOARD.

Side console setup

Choose SIDE CONSOLE from the SELECT SPORT MENU. The side console function turns the NAUCON-1000 unit into a secondary console. This function is used in basketball, where the score is controlled by a secondary referee.

SIDE CONSOLE REQUIREMENTS:

- → Primary the NAUCON-1000 with BAS-KETBALL selected.
- → Secondary the NAUCON-1000 with SIDE CONSOLE selected.

The **SETUP** click button on the NAUCON-1000 has no function for SIDE CONSOLE.

1 Correct menu

If a correction must be made to the ongoing game, enter CORRECT MENU from where you can subtract points and fouls.

2 Fouls

Assign a foul to a specific player, or the team.

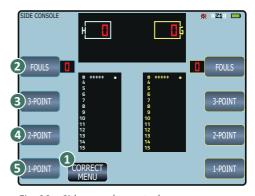


Fig. 38 – Side console, control screen

3-Point

Assign 3 points to a specific player, or the team.

4 2-Point

Assign 2 points to a specific player, or the team.

6 1-Point

Assign 1 point to a specific player, or the team.

Total reset

To perform a TOTAL RESET, follow the steps below:

WARNING: WHEN A TOTAL RESET IS PERFORMED, ALL SAVED CONFIGURATIONS WILL BE LOST AND SET TO DEFAULT!

- → You can export the current configuration as a back up before proceeding, see EXPORT CONFIGURATION on page 9.
- 1 The NAUCON-1000 must be turned OFF
- 2 Press and hold the **GAME RESET** and **TIME RESET** click buttons at the same time.
- 3 Turn ON the NAUCON-1000 unit. Do not release the buttons yet!

- 4 Text on the touch screen should be:
- 5 Release the GAME RESET and TIME **RESET** click buttons.
- 6 After approximately 1 minute, the NAUCON-1000 unit will start up, with all settings set to default.
- → TOTAL RESET DONE

NAUTRONIC - NAUCON-1000 VERSION X.XX IO-PORT TEST PASSED NAUNET TEST PASSED TOTAL RESET!!! **TESTING BACKUP MEMORY INITIATING RAM**

INITIATING FLASH

How to check the software version

There are two methods to check the software version of the NAUCON-1000 unit.

METHOD 1:

- 1 Enter the SELECT SPORT menu. Press the **MENU** click button on the console and then **EXIT SPORT** on the touch screen.
- → At the bottom left side of the SELECT SPORT menu, the software version is displayed.

E.g. VERSION 2.50

METHOD 2:

- 1 Start or restart the NAUCON-1000.
- → Upon startup; the version installed displays:

NAUTRONIC - NAUCON-1000 VERSION X.XX **IO-PORT TEST PASSED NAUNET TEST PASSED TESTING BACKUP MEMORY INITIATING RAM INITIATING FLASH**

Updating the NAUCON-1000 software

WARNING: WHEN SOFTWARE UPDATE IS PERFORMED, ALL SAVED CONFIGURA-TIONS WILL BE LOST AND SET TO DEFAULT!

To update to the latest version of software to the NAUCON-1000, follow the steps helow.

- 1 Turn the NAUCON-1000 off.
- 2 Plug in the power supply.
- 3 Press and hold the SETUP button.

While still holding the **SETUP** botton:

- 4 Turn the NAUCON-1000 on.
- 5 Release the SETUP button.
- 6 The touch screen will display the following text: "BOOTLOADER STARTED, INSERT USB DRIVE."

7 - Insert a USB stick with software sup-

8 – The touch screen will display the following text: "DISK FOUND."

After 10-15 seconds:

- 9 The touch screen will display the following text: "PLEASE REMOVE DRIVE."
- 10 Remove the USB stick.
- 11 The NAUCON-1000 unit turns off.
- Software update is done.

WHEN THE NAUCON-1000 IS TURNED ON FOR THE FIRST TIME AFTER A SOFT-WARE UPDATE, IT WILL TAKE APPROX-IMATELY 1 MINUTE LONGER THAN A NORMAL START UP.



Import/Export settings

IMPORT CONFIGURATION

Import your saved configuration to the NAUCON-1000 from the service menu.

To enter the service menu follow the steps below:

- 1 Press the menu click button
- 2 Press "Exit sport" button to exit the
- 3 Press "General Setup"
- 4 Press "Service menu"
- **5** Service password must be entered: 1166
- 6 Press "import configuration" A screen will show the following text: INSERT A FLASH DISK IN USB!!!
- 7 Insert your USB stick into the NAU-CON-1000. A new text will be shown on the screen.

PLEASE WAIT!!! IMPORTING CONFIGURA-TION FROM USB DRIVE

When the import is complete the NAU-CON-1000 returns to the service menu.

EXPORT CONFIGURATION

Export your current configuration of the NAUCON-1000 from the service menu.

To enter the service menu follow the steps below:

- 1 Press the menu click button
- 2 Press "Exit sport" button to exit the
- 3 Press "General Setup"
- 4 Press "Service menu"
- **5** Service password must be entered: 1166
- 6 Press "Export configuration" A screen will show the following text: INSERT A FLASH DISK IN USB!!!
- 7 Insert your USB stick into the NAU-CON-1000. A new text will be shown on the screen.

PLEASE WAIT!!! EXPORTING CONFIGURA-TION TO USB DRIVE

When the export is complete the NAU-CON-1000 returns to the service menu.



Trouble shooting

HARDWARE PROBLEMS: Locate the problem with a little help from the service led's and the illustration below, Fig. 40.

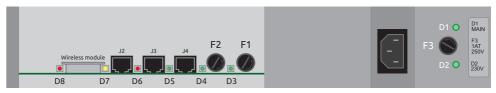


Fig. 40 – The bottom of a scoreboard

THE LEDS INDICATE THE FOLLOWING, WHEN A SCOREBOARD IS WORKING PROPERLY:

- → D1, D2, D3, D4 and D5 constantly light green.
- → D6 flashes red rapidly.
- → D7 flashes yellow once per second.
- → D8 flashes red rapidly but only if a radio module is present.

D1 - MAIN If D1 light is off:

Check main power connection.

D2 - 230V/AC LED

If D2 light is off:

Check fuse F3. Press and turn F3 at the same time to check if the fuse is blown and must be replaced.

D3 - 12V/DC HORN

If D3 light is off:

Check fuse F1. Press and turn F1 at the same time to check if the fuse is blown and must be replaced.

D4 - 24V/DC DIGIT

If D4 light is off:

Check fuse F2. Press and turn F2 at the same time to check if the fuse is blown and must be replaced.

D5 - 24V/DC FOR THE NAUCON-1000 If D5 light is off:

Remove all plugs connected to J2, J3 and J4. If D5 light turns on, there might be a short circuit in the cables or in the NAUCON-1000.

D6 – DATA COMMUNICATION If D6 light is off:

There is no data reception.

- → Check the cable connected to the control panel.
- → Check the wall connector.
- → Turn the power to the scoreboard off, wait for 5 seconds and turn it back on. If still without function, contact the local scoreboard supplier for instructions.

D7 - INTERNAL OPERATION If D7 light is either off or constantly on: Internal units in the scoreboard might be damaged.

D8 – WIRELESS COMMUNICATION If D8 light is off:

There is no radio signal reception.

- → Wireless module must be installed for D8 to function.
- → Make sure the NAUCON-1000 is turned on.

FUSES:

 $\mathbf{F1} \rightarrow 5AF$

 $\mathbf{F2} \rightarrow 5AF$

 $F3 \rightarrow 1AT$

Diagnostics menu

The DIAGNOSTICS MENU can be entered by pressing the desired address button, e.g. 11, in the BOARD INFO MENU. The NAUCON-1000 will enter a diagnostic menu where all information of the scoreboard is available.

To enter the diagnostic menu follow the steps below:

- 1 Press the menu click button
- 2 Press "Exit sport" button to exit the sport
- 3 Press "General Setup"
- 4 Press "BOARD INFO" Let the NAU-CON-1000 search for available scoreboards.

When the diagnostic menu is opened, the scoreboard will display its address in the HOME score, the board zone in GUEST score and the software version in the game time/day time clock digits.

Fig. 41 – Description of each line:

12V in – 12V/AC supply for the NGMCB.

12V fuse - 12V/DC Fuse F1 for the horn.

24V in – 24V/AC supply for the NGMCB.

24V fuse - 24V/DC fuse F2.

Naunet 24V - 24V/DC for the digits.

Naunet GND - Ground/GND for the NG-MCB.

Extra 24V - EXTRA 24V/DC NGP 24V/ DC supply. NGP-85 are not mounted in all scoreboards.

Extra relay – Relay mounted in the NGP-85. NGP-85 are not mounted in all scoreboards.

DCF77 - NG-DCF receiver DCF77 receivers are not mounted in all scoreboards.



Fig. 41 – Diagnostic test screen

Dip1 - Dip setting of DIP1 in the NGI-85

Dip2 - Dip setting of DIP2 in the NGI-85

Dip3 - Dip setting of DIP3 in the NGI-85

Diagnostic - Shows checksum of diagnostics information

Wireless Power - Wireless power, which can be adjusted from 0 to 17 for test purpose only.

Total retry count - Total retries of sent packets to the Scoreboard.

Send packets - Number of packets sent from the NAUCON-1000

Receive packets - Number of packets the NAUCON-1000 has received from the scoreboard.

Board receives – Number of packets the NGMCB has received from the NAU-CON-1000.

Packet loss - Lost packets.

Diagnostic troubleshooting guide

What is the reason why errors occur and testing.

RELAY 1 – fault:

→ Cable or horn incorrectly connected to J7.

RELAY 2 - fault:

→ Cable or horn incorrectly connected to

RELAY 3 - fault:

→ NG out or LED strip incorrectly connected to J9.

12V IN – *fault*:

 \rightarrow No 12V/AC supply.

12V FUSE – fault:

 \rightarrow Fuse F1 is blown.

24V IN – *fault*:

→ No 24V/AC supply.

24V FUSE - fault:

 \rightarrow Fuse F2 is blown.

NAUNET 24V – fault:

 \rightarrow Fuse F2 is blown.

NAUNET GND – *fault:*

→ Possible short circuit on equipment connected to the NGMCB.

EXTRA 24V - fault:

→ Fuse F12 is blown.*1

EXTRA RELAY – fault:

 \rightarrow N/A. not used.*1

DCF77 - fault:

→ NG-DCF has a bad reception or it is not installed correctly.*2

DIP1 - default:

 $\rightarrow 0 - 00000000$

DIP2 – default:

 $\rightarrow 0 - 00000000$

DIP3 – default:

 \rightarrow 11 - 00001011

DIAGNOSTIC FOR WIRELESS POWER SHOWS CHECKSUM:

 \rightarrow 0-17 and can only be edited when a test is started.

Start the wireless test: Press START TEST and thereafter RESET TEST:

TOTAL RETRY COUNT

 $0 \rightarrow OK / Counting \rightarrow ERROR$ Error: Fault in the communication.

SEND PACKETS

Counting*3 → OK

0 → Error: The radio in the NAUCON-1000 might be damaged.

RECEIVE PACKETS

Counting*³ → OK

0 → Error: The radio on the NGMCB might be damaged.

BOARD RECEIVES

Counting*³ → OK

 $0 \rightarrow Error$: The radio in the NAUCON-1000 might be damaged.

PACKETS LOSS

 $0 \rightarrow OK$

Counting → *Error*: Lost packets.

- *1 Only displayed on scoreboards with NGP-85 mounted.
- *2 Only displayed on scoreboards with NG-DCF module mounted.
- *3Should show almost the same value.



NAUTRONIC SCOREBOARD SYSTEM

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