



User manual for Fishweigher Version SW 7.01



Nyskovvej 13 · DK-6580 Vamdrup Tlf. +45 76 92 02 00 · Fax +45 75 58 06 31 E-mail: scales@farmertronic.com www.farmertronic.com

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Description



The **Fishweigher** is a stainless steel scale made specific for weighing fish. It is based on a rugged platform 50 x 40 cm with a capacity of 200 Kg and a 100 g graduation. The scale has handles for easy transport, adjustable feets and a detachable instrument with build in battery for 8 hours of weighing. The scale is heavily build to be able to withstand years of use in the fishing industry. It is however not heavier (it weighs 24.5 Kg) that one person easily can carry it from place to place. As it is made of stainless steel it will withstand use in harsh environments, such as saltwater based production.

Parts

Complete scale:

40 x 50 cm
200 Kg
100 g
8 hours



Handles:

In both sides a handle.

Feets:

All 4 feets are adjustable.



Instrument:



Power LED. This LED is lit when 230V is applied through adaptor

Tare LED.

Constant light: Instrument has been TARED. Net-weight is shown. *Flashes*: Weight <u>not</u> stable. Await stable before reading the weight.

Charge LED.

When used without external supply the instrument will discharge the build in battery. When this LED starts to flash please charge the battery. The use can continue while charging.

Please note - if the battery is completely discharged a prolonged charging period may be required / battery replaced. The instrument may not be able to be switched on properly as long as the battery-voltage is very low.

Ecco 101	Farmer Tronic Industries A/S VÆGTE & VEJESYSTEMER Power Tare KG Charce 200 Kg	
	U	



 $\ensuremath{\mathsf{ON/OFF}}$: The instrument is turned $\ensuremath{\mathsf{ON}}$ / $\ensuremath{\mathsf{OFF}}$

ON:
OFF:

N: Turn backlight ON FF: Turn backlight OFF



Tare: Press to TARE The **current load** will be stored in tare-memory



Live: Changes between current or accumulated load. Each time the key is pressed the reading is changed.



NO: Changes between the number of weighings or the load (either current or accumulated)



Start: This key sets the number of weighings to zero and it resets the accumulated load.

Connections:

Charger:

Platform:

Charger:

Mains:	230 Vac
Output:	9 Vdc
Current:	800 mA

The instrument has build in charging control which is adapted to the original external charger. We recommend that only the original charger is used.



Battery: Voltage: 6Vdc Capacity: 3,4Ah

The best way to make the battery last for a long period is to keep the battery fully charged at all times. The instrument has a build in charg-ing-circuit which prevents overcharging. Consequently you can leave the instrument charging at all times

Please note - if the battery is completely discharged a prolonged charging period may be required or the battery replaced. The instrument may not be able to be switched on properly as long as the battery-voltage is very low.

Operation - shortform

- ◆ Turn the instrument ON on the ON/OFF button on front.
- The instrument will now perform a self-test.
- The current software-version will be shown.
- The zero is found (may take a little while depending on the settings).
- The instrument is now ready for use.
- ◆ If any, place the empty container etc. on the weight.
- Now the weight can be tared by pressing the TARE button.
- ♦ Place the goods on the weight
- When the reading is stable the load is entered in the accumulated load
- A beep is sounded to indicate that the load has been registed.
- ♦ Removed the load.
- The reading remains at the accumulated load.
- ♦ Place a new load on the scale.
- The weighing will start at 0 again and show the current load until a stable reading has been reached. When a stable reading has been reached the load is entered in the accumulated load.
- ♦ The accumulated load is shown.
- A beep is sounded to indicate that the load has been registed.
- ♦ Removed the load.
- The reading remains at the accumulated load.
- This loading accumulating unloading can continue until you have reached the target load.
- When you want to start a new sum, i.e. setting the accumulated load = 0, you just need to press the Start-key (see above).

• At all times you can see the current load by pressing the Live-key. To go back to accumulated sum you need to press it again.

♦ At all times you can see how many times you have performed a registration (added a current load to the accumulated load). Just press the No. key and the no is shown. To go back to load reading just press it again.

<u>Operation - by example</u>

Turn instrument ON:

Turn the instrument ON on the ON/OFF button on front.

The instrument will now perform a self-test

The zero is found (may take a little while depending on the settings).

The instrument is now ready for use.



Load and Tare:

If you are going to use the tarefunction, then load the scale with the tare-weight. WHILE the tareweight is present on the scale press the Tare-button

When done, the Tare LED will he lit

Load and auto-sum:

◆ Place the goods on the weight

• When the reading is stable the load is entered in the accumulated load

• A beep is sounded to indicate that the load has been registed.

- ♦ Removed the load.
- ◆ The reading remains at the accumulated load





Load again:

♦ Place a new load on the scale.

• When the reading is stable the load is entered in the accumulated load

• The accumulated load is shown.

• A beep is sounded to indicate that the load has been registed.

♦ Removed the load.

• The reading remains at the accumulated load.

• This loading - accumulating - unloading can continue until you have reached the target load.

Number of loads:

• The number of load can be seen by pressing the NO-button once.

• The reading continues to show the number of loads until the button is pressed again.





Live weight:

• The current net-load can be seen by pressing the Live-button once.

• The reading continues to show the live weight until the button is pressed again.



Reset of sum:

• The accumulated load and number of loads can be reset by pressing the Start-button once.

• The tare-load is NOT affected by this.



Backlight:

• In dim conditions a backlight can be used to ease the reading of the display.

◆ To switch ON / OFF the backlight press the Backlight-button.



OFF:

• When you are done with the weighing, turn off the instrument by pressing the ON/OFF button.



Setup of instrument

Configuration:

By the use of a USB-memory stick (USB-Disc) the instrument can be configurated. 3 different files must be placed in the root of an empty USB-disc. The disc must adhere to the FAT16 format (use SanDisk 2Gb)

Below is shown an a USB-disc with the 3 files in the root-directory. Note that the names are fixed and must be in capital letters.



Each file is shown in the next pages for reference.

Computer ► 0809E30078	(G:)			
Filer Rediger Vis Funktioner Hjælp				
🍓 Organiser 🔻 🏢 Visninger 🔻 🙆 Bra	end			
Favoritlinks Dokumenter Billeder Musik Flere >> Mapper Skrivebord Dim Desktop Dette filer ACER (C:) Dim DATA (D:) DATA (D:) DATA (E:) DATA (E:) DATA (E:) DATA (E:) DATA (G:) Dim Dose Source (G:) Computer Dim Dose Source (G:) Computer Computer Dim Data (G:) Dim Data (G:) Computer Dim Data (G:) Computer Dim Data (G:) Dim Data (G:) Computer Dim Data (G:) Dim Data (G:) Computer Dim Data (G:)	Navn CONFIG SYSTEM CAL	Ændringsdato 23-09-2008 09:40 12-08-2008 15:10 23-09-2008 09:40	Type CSV-fil CSV-fil CSV-fil	Størrelse 4 K 6 K 5 K
 Kontrolpanel Papirkurv 				

Inserting the USB-disc:

There are 2 USB-connectors on the bottom-edge of the instrument. They will normally be covered by a protective tape. The tape holds information on serial no and last calibration date.

Remove the tape from the rightmost USB-connector.

When the setting / calibration of the instrument has been completed please cover the USB-connector again.

USB:



SYSTEM.CSV

0000;0;	SYSTEMSETTINGS
0000;0;	FACTORY-SETTINGS - SHOULD NOT BE CHANGED.
0000;0;	This file must be placed in the root on the USB-Disc.
0000;0;	The format is fixed and may NOT be changed.
0000;0;	To setup, use Microsoft Notebook.
0000;0;	Save in same format, which is Unicode
0000;0;	
0000;0;	Below is the setup parameters. Their use is explained pa
0000;0;	
1001;3.01;	Version
1002;0;	Read/Write USB-systemsettings from/to instrument ($0 =$
2000;0;	Operation Mode (0 = Ecco 101, 1 = Ecco 201, 2 = Ecco 20
2001;2;	PowerUp Mode (1 = Long Powerup with test, 2 = Quick
2002;20;	A/D converter frequency in Hertz (6 - 100 Hz)
2010;1;	Channel 1 - Configuration (Channel 1 = 1, Channel 2 =
2011;200.0;	Channel 1 - Max load, decimal point determines read-out
3012;0.0;	Channel 1 - Min load, no value below this value is shown
3013;0.1;	Channel 1 - calibration division "e"
3014;0.1;	Channel 1 - read-out division "d"
3015;0.1;	Channel 1 - Rounding
4016;Kg;	Channel 1 - Unit
3017;5.0;	Channel 1 - Motion, change in Unit's pr. second
2018;1;	Channel 1 - Filterfunction
2019;10;	Channel 1 - Debth of filter
2060;1;	Backlight turns on at powerup
2061;100;	Backlight percentage
2062;50;	Display Contrast
2063;100;	Buzzer percentage (volume)
2064;1;	Power saving - when OFF, the Real-time clock is stopped
2065;0;	Automatic zero-ajust (when unloaded)
2066;0;	Do not perform automatic Zero at powerup
2067;9600;	Serial communication, Baudrate
4068;n;	Serial communication, Paritet
2069;8;	Serial communication, No of Databit
2070;1;	Serial communication, No of Stopbit
2071;0;	Serial communication, HW handshake RTS & CTS

Example on settings.

To change setting open the configuration-file with a text-editor (*must* be compatible with Uni-code).Use Windows[®] Notebook. The parameters are all selfexplaining.

CONFIG.CSV

0000;0;	CONFIGURATION
0000;0;	FACTORY-SETTINGS - SHOULD NOT BE CHANGED.
0000;0;	This file must be placed in the root on the USB-Disc.
0000;0;	The format is fixed and may NOT be changed.
0000;0;	To setup, use Microsoft Notebook.
0000;0;	Save in same format, which is Unicode
0000;0;	
0000;0;	Below is the setup parameters. Their use is explained pa
0000;0;	
1001;3.01;	Version
1010;0;	Read/Write USB-configuration from/to instrument ($0 = no$
2152;0;	Automatic tare between weighings ($0 = no$, $1 = yes$)
2166;50;	Stablility time before auto-accumulation, (time is given
0000;0;	
0000;0;	
0000;0;	Date and time for instrument.
0000;0;	To setup the current time and date for the instrument (will
0000;0;	set the below date and time parameters.
0000;0;	To transfer the setting to the instrument set parameter
0000;0;	
0000;0;	Current Date and time (format is day, month, year,
2170;8;	Dag
2171;9;	Måned
2172;2009;	År
2173;11;	Time
2174;55;	Minut

Example on settings.

To change setting open the configuration-file with a text-editor (*must* be compatible with Uni-code).Use Windows[®] Notebook. The parameters are all selfexplaining.

CAL.CSV

```
0000;0;-----CALIBRATION------
0000;0;FACTORY-SETTINGS - SHOULD NOT BE CHANGED.
0000;0; This file must be placed in the root on the USB-Disc.
0000;0; The format is fixed and may NOT be changed.
0000;0;To setup, use Microsoft Notebook.
0000;0;Save in same format, which is Unicode
0000;0;
0000;0;Calibrating
0000;0;Zero and Full scale calibration can be done individually or in
0000;0;To perform a calibration please do:
0000;0;Choose Zero and or Full scale calibration by setting parameter
0000;0;Insert the USB-disc in the instrument (far right connector)
0000;0;The instrument will now prepare the calibration.
0000;0;The instrument will indicate which calibration is active - CAL
0000;0;To perform the calibration press the "Disc-button" on the instr
0000;0;When the button has been pressed a beep is sounded and the di
0000;0;When the calibration is completed the calibration-data are st
0000;0;The USB-Disc can be used to reestablish the calibration at a
0000;0;To do so, a 2 must be written in parameter 1005.
0000;0;
1001;3.01;
               Version
                Read/Write USB-calibration from/to instrument ( 0 = no
1005;0;
1006;0;
               Perform Zero-scale calibration (0 = no, 1 = ves)
               Perform Full-scale calibration (0 = no, 1 = ves)
1007;0;
3100;200.0000; Calibration-load for full-scale calibration
                                                               (use
3104;0.0700; Calibration-factor for Zero-scale calibration (is wri
              Calibration-factor for Full-scale calibration (is wri
3105;1.6109;
3112;0.0000; Actual reference-value for Full-scale
3113;4.0000; Actual reference-value for Full-scale
                                                              (is wri
                                                               (is wri
```

Example on settings.

To change setting open the calibration-file with a text-editor (*must* be compatible with Uni-code).Use Windows[®] Notebook. The parameters are all selfexplaining.

Calibration-Procedure

- Check that the weigher is mechanical stable and horizontal
- Check that all connections are correct.
- ◆ Turn the instrument ON on the ON/OFF button on front.
- ♦ The instrument will now perform a self-test.
- ♦ The current software-version will be shown.
- The zero is found (may take a little while depending on the settings).
- The instrument is now ready for use (see below, however).
- If the instrument doesn't show the right weight do:
- ♦ Turn OFF the instrument on the ON/OFF button on the front.
- ♦ Setup the CAL.CSV file (parameter 1006; 1; and 1007; 1;)
- ♦ Insert the USB-stick and turn ON the instrument.
- ♦ Wait for the instrument to display CAL-0
- When the weight is stable press the "DISK"-button.
- The zero is now read.
- ♦ Wait for the instrument to display CAL-F
- Place the load (the load must be the value written in parameter 3100)
- When the weight is stable press the "DISK"-button.
- Now the calibration weight is read.
- ♦ Await the values to be written to the USB-stick.
- While writing to the USB-stick "USB" will be displayed.
- When the writing to the USB-stick is completed then switch off.
- Remove the USB-stick and store it for future reference.
- The instrument is now calibrated and can be used again.

Other products for aqua-culture



Net with build-in weighing system





Low cost version made in cast-aluminum



Please Note:

The USB-memorystick must be formatted using the FAT 16 discstructure. Hence a maximums of 2Gb size can be used. We have used the SanDisk 2Gb which works perfectly for the instrument. Others may be used, but we do not guarantee proper function.



Nyskovvej 13 · DK-6580 Vamdrup Tlf. +45 76 92 02 00 · Fax +45 75 58 06 31 E-mail: scales@farmertronic.com www.farmertronic.com