

GBMS KULLANIM KILAVUZU



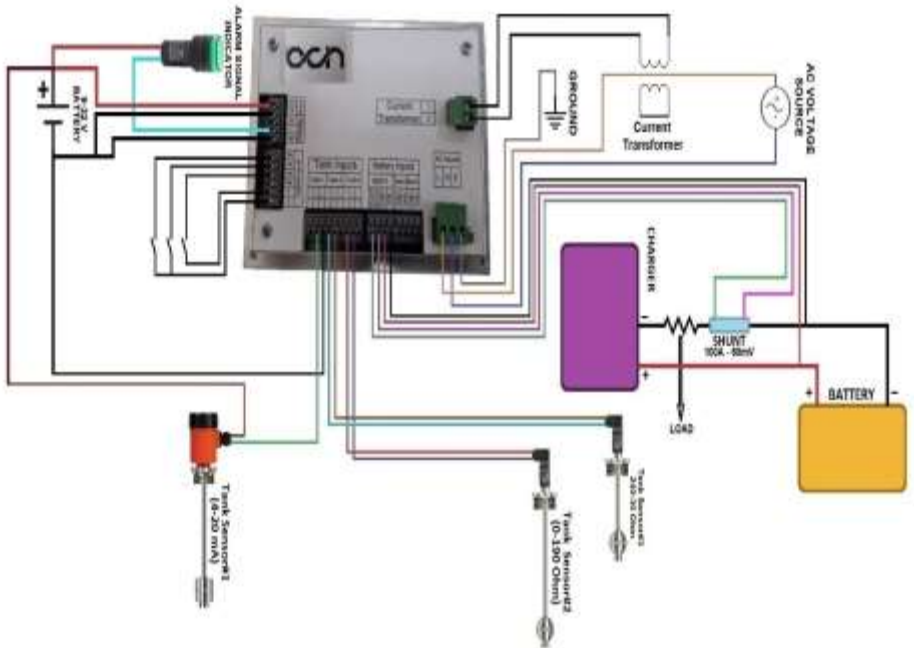
CONTENTS

GENERAL FEATURES	2
SETUP	3
SETTINGS.....	6
TROUBLESHOOTING	13
DIMENSIONS	14

GENERAL FEATURES

- Ability to operate in the range of 9-32 V DC.
- 3 tank level, 3 battery voltage and 4 digital input monitoring.
- One battery capacity measurement.
- Tank level sensors; 4-20mA, 0-190 Ω and 340-30 Ω .
- One alarm relay output.

SETUP



Picture 1.0 Installation Diagram

- **Connecting the power cable:** Connect the (+) end of the power cable to the (+) pin on the Power section of the **GBMS**, and the (-) end with the (-) pin on the Power section of the **GBMS**.

- **Connecting the Battery-1 and the shunt:** Connect the (+) part of the shunt, which is connected in series to the (-) line between the Charger and the battery, and the **Shunt+** pin of the **Batt-1** connection on the **GBMS**. Make a connection between the (-) part of the shunt, which is connected in series to the (-) line between the charger and the battery, and the Shunt-pin of the **Batt-1** connection on the **GBMS**. Make a connection between the (+) terminal of the battery and the (+) terminal of the **Batt-1** in the Battery Inputs section of **GBMS**. Connect the cable between the shunt at the (-) part of the battery and the charger and the (-) terminal of the relevant battery in the Battery Inputs part of the **GBMS**.

- **Connecting other batteries:** Connect the (+) terminal of the battery to the (+) terminal of the corresponding battery in the **Battery Inputs** section of **GBMS**, connect the (-) terminal of the battery with the (-) terminal of the relevant battery in the **Battery Inputs** section of **GBMS**.

Connecting the tank sensors:

- Sensor 4-20mA** ; Take a jumper from the (+) end of the supply cable and connect it to the input pin of the sensor. Connect the output pin of the sensor to pin 2 of the corresponding tank input. Take a jump from the (-) end of the supply cable and connect it to pin 3 of the relevant tank input.

- **Sensor 0-190 ohms or 240-30 ohms** ; Regardless of the direction, connect one pin of the sensor to the 1st pin of the relevant tank input, and the other pin of the sensor to the 2nd pin of the relevant tank input..

Connecting AC inputs:

Connecting the voltage cable: Connect phase to **L** pin, neutral to **N** pin, and ground to **E** pin in **AC Inputs** section on **GBMS**.

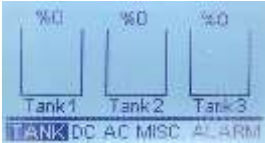
Connecting the current transformer: Connect the pin 1 of the current transformer to the pin 1 on the **Current Transformer** section on the **GBMS**, and the pin 2 of the current transformer to the number 2 pin on the **Current Transformer** section on the **GBMS**.

- ***Connecting the digital inputs:*** Connect one end of the **GBMS** digital sensor to the **Common (C)** pin on the **Miscelleneaus section** and the other end to the corresponding **IN** pin on the **Miscelleneaus section**. (The common pin can be used hopping.)

- ***Connecting the alarm signal lamp:*** Take a jump from the **(+)** end of the supply cable and connect it to the **Common (C)** terminal on the alarm relay output. If you want the alarm signal lamp to light in alarm; Make a connection between the **Normally Open (NO)** pin and the **(+)** end of the lamp. If you want the alarm signal lamp to turn on when the alarm is terminated; Make a connection between the **Normally Closed (NC)** pin and the **(+)** terminal of the lamp. Take a jump from the **(-)** end of the supply cable and connect it to the **(-)** end of the lamp.
Note: When making device connections, make sure that all power is disconnected.

SETTINGS

Settings Menu:



Long press the **MENU** button to open the settings menu and move the **UP** and **DOWN** buttons to the relevant section and briefly press the **MENU** button.

Tank Level Settings:



After entering the settings menu, move to **Tank Settings** with the **UP** and **DOWN** keys and press the **MENU** key for a short while.



With the **UP** and **DOWN** keys, point to the desired tank and press the **MENU** key briefly to enter the setting interface of the relevant tank.



To set the sensor type; With the **UP** and **DOWN** keys, the sensor type is selected and by short pressing the **MENU** key, the other tank setting is entered.

To adjust the tank low and high level; The desired value is reached by increasing or decreasing the value with the **UP** and **DOWN** keys.

To set the offset value; The desired value is reached by increasing or decreasing the value with the **UP** and **DOWN** keys.



Short press the **SILENCE** button to return to the **Tank Settings** menu, move to the **Alarm Setting** with the **UP** and **DOWN** buttons, and enter the **Alarm Setting** interface by short pressing the **MENU** button..

With the **UP** and **DOWN** keys, the tank alarm waiting time is set to the desired value. When the **SILENCE** button is pressed briefly, the value is saved in the device memory and returns to the upper menu.

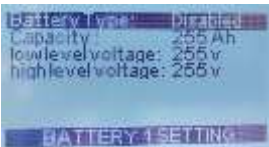
Battery Settings:



After entering the settings menu, move to **DC Settings** with the **UP** and **DOWN** keys and press the **MENU** key for a short time..



With the **UP** and **DOWN** keys, highlight the desired battery and press the **MENU** key briefly to enter the setting interface of the relevant battery.



To activate battery voltage measurement; With the **UP** and **DOWN** keys, the battery type is selected and by short pressing the **MENU** key, other battery settings are changed..

To set low and high voltage alarm levels; With the **UP** and **DOWN** keys, the desired voltage levels are reached.

When the **SILENCE** button is pressed briefly, the value is saved in the device memory and returns to the upper menu.



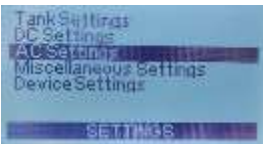
With the **UP** and **DOWN** keys, highlight **Alarm Setting** and press the **MENU** key for a short time. The battery alarm delay time interface is entered.



With the **UP** and **DOWN** keys, the alarm delay time is set to the desired level.

When the **SILENCE** button is pressed briefly, the value is stored in the memory and returns to the upper menu.

AC Settings:



After entering the settings menu, move to **AC Settings** with the **UP** and **DOWN** keys and briefly press the **MENU** key.

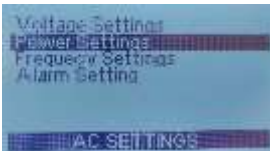


After entering the **Settings menu**, highlight **Voltage Settings** with the **UP** and **DOWN** keys and briefly press the **MENU** key..

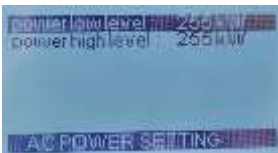


To adjust the Lower and Upper Voltage levels; With the **UP** and **DOWN** keys, the desired voltage levels are reached..

When the **SILENCE** button is pressed briefly, the value is saved in the device memory and returns to the upper menu..

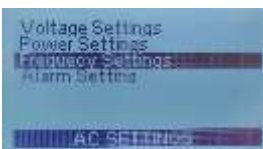


After entering the **Settings menu**, highlight **Voltage Settings** with the **UP** and **DOWN** keys and briefly press the **MENU** key..



To adjust the Lower and Upper Power levels; With the **UP** and **DOWN** keys, the desired power levels are reached.

When the **SILENCE** button is pressed briefly, the value is saved in the device memory and returns to the upper menu..

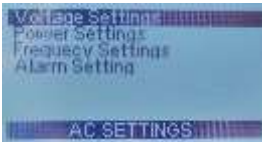


After entering the **Settings menu**, move to **Frequency Settings** with the **UP** and **DOWN** keys and press the **MENU** key for a short time.



To adjust the Low and High Frequency levels; With the **UP** and **DOWN** keys, the desired power levels are reached..

When the **SILENCE** button is pressed briefly, the value is saved in the device memory and returns to the upper menu..



With the **UP** and **DOWN** keys, highlight **Alarm Setting** and press the **MENU** key for a short time. The battery alarm delay time interface is entered.



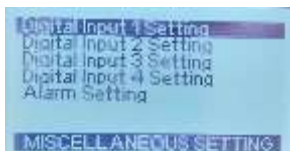
With the **UP** and **DOWN** keys, the alarm delay time is set to the desired level.

When the **SILENCE** button is pressed briefly, the value is stored in the memory and returns to the upper menu.

Miscellaneous Settings:



After entering the settings menu, move to **Miscellaneous Settings** with the **UP** and **DOWN** keys and press the **MENU** key for a short while..



By highlighting the relevant **Digital Input Setting**, short pressing the **MENU** button will enter the setting interface..



Select **NO** if the alarm is required to be active when the signal is received, **NC** is selected if the alarm is desired to be active when the signal is lost..

When the **SILENCE** button is pressed briefly, the value is stored in the memory and returns to the upper menu.

With the **UP** and **DOWN** keys, highlight **Alarm Setting** and press the **MENU** key for a short time. Various objects are entered into the alarm delay time interface.

TROUBLESHOOTING

When the device is not running:

Check the power cable entries.

When Tank Level Information Doesn't Come:

Check the connections of the relevant tank.

Check if the relevant tank is active.

When voltage information is not received:

Check the connection of the voltage input of the relevant battery.

Check if the relevant battery is active.

When Capacity Information Doesn't Come:

Check the connection of the relevant battery shunt input.

When Buzzer Doesn't Work:

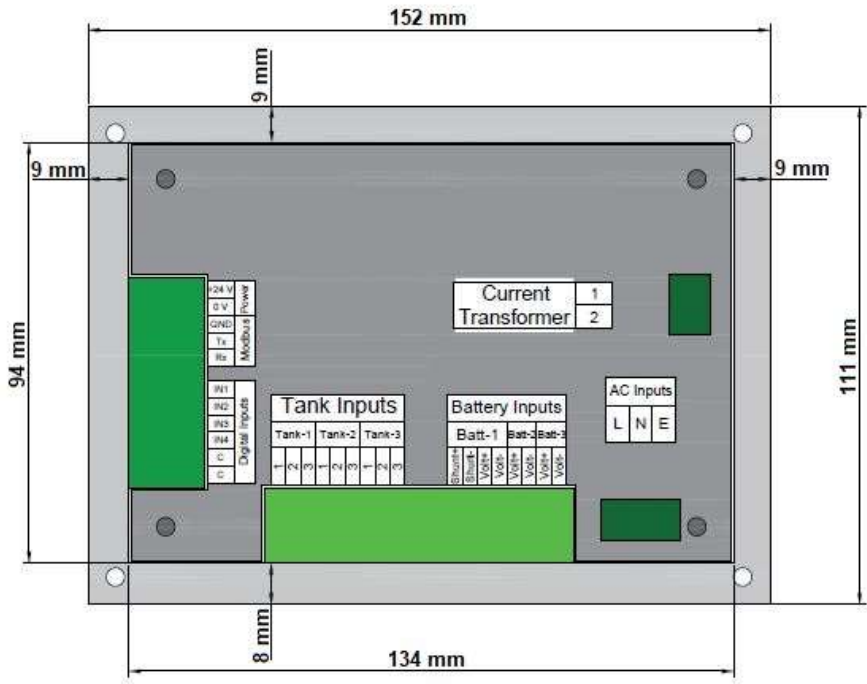
Make sure the buzzer is on by checking the settings.

DIMENSIONS

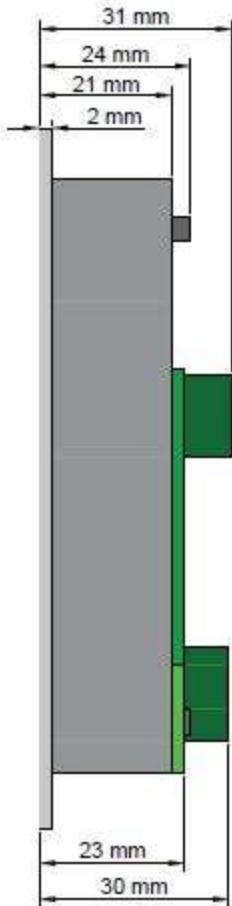
Top View:



Back view:



Side view:



Notes;

OCN ELEKTRONİK VE TİCARET A.Ş.

İçmeler Mahallesi Altunay Sokak

No:33 Kat:3 İç Kapı No:11

Tuzla/İSTANBUL

Telefon : +90 (216) 629 29 19

E-Posta : info@ocnelectronic.com

<http://ocnelectronic.com>