

Introduction

Dear customer,

Thank you for your confidence shown by the purchase of this innovative product. We firmly believe that our product will be a pleasant and reliable companion on the water with your craft and will ease your mobile living, especially from the remote places.

Before setting up and starting using this product, please read these instructions thoroughly. Use the product only as described in this manual. We recommend keeping these instructions and proof of purchase for future use or until the warranty expires. In case of transportation, pack the product in its original packaging to ensure maximum protection during transport to the service center.

Safety warnings and instructions

- Carefully unpack the product and beware of throwing away any parts of the packaging material before finding all parts of the product.
- Product is not intended for individuals (including children) with reduced physical, sensory or mental abilities, for individuals with limited experience or knowledge without professional supervision or without given instruction of use of this product by a person responsible for their safety. Children should be supervised and prevented from playing with the product.
- Do not repair or modify this product by yourself. Let only authorized service point repair and modify this product. Unauthorized modifications of this product during the period of warranty may void it.
- Do not expose this product to extreme temperatures or direct sunlight.
- Do not submerge the product in water or other liquids.
- Manufacturer is not responsible for damages caused by inappropriate use of the product.
- The product is intended to be installed at the professional service point.

Contents and product description

Product consists of the onboard unit and installation wiring and antennas. These are packed and delivered concurrently. The list of contents of the packaging corresponds with the installation diagram, which is a part of this manual. Individual products are labeled with codes in MCxxxx format. Fixation material in the form of self-tapping screws for wooden or plastic surfaces is a part of the packaging.

Installation and set-up

- Installation and connection to the electrical circuits

Disconnect the leisure battery and electricity plug . The most suitable place for installation for OBU is the power supply area. Make sure to allow the airflow to the unit's cooling grids. Avoid areas with increased incidence of moisture or excessive heat caused by other devices. Connect the unit using the included wiring or optional wiring according to the installation diagram. We recommend measuring amperage of all light channels before installing lighting control wiring. Ensure a suitable location for the unit and radio antennas according to the RF rules, avoid places with metallic surfaces. To ensure maximum signal level use included self-adhesive external antennas.

- First launch

Please, re-check that the unit was correctly connected. Having connected the leisure battery, activate the main Power Switch. Status of operation is indicated by the blinking green light on the "Power LED". Go to App Store or Google Play on your smartphone and install "MariControl" application. After launching the application it will proceed to search for the devices which require pairing. For successful pairing of the found device, please type the 4-digit security code appearing on the service display.

- Set-up

As a first step we recommend to update the unit's firmware which is offered automatically. Selecting the type of heating in "Service Settings" section in Smart App is necessary. PIN code for the "Service Settings" is set to "0000" by default. If the electroblock comm. cable is part of the installation it needs to be selected in the service section in the application. Connection with accessories, for instance, gas measurement pad and security sensors is established wirelessly in the settings section, see the manual for individual devices. Pairing PINs can be erased by pressing the reset button for 2 seconds and reset to factory configuration by holding the button for 10 seconds. Now check if the information and interaction with connected devices is functional in application's dashboard. In case of any problems, contact our technical support or visit our websites for help. See SIM-card package for information regarding its activation.

Technical data, inputs and outputs, communication interfaces

Technical parameters:

Rendering: plastic casing box, sealing level IP20

Dimensions: 110 mm x 60 mm x 220 mm (w x h x d)

Operating temperatures: -30 °C to +60 °C

Power: 10 – 16 V DC

Inputs

- 2x water sensor – water level measurement (2x 5 pins)
- 2x temperature sensor – Dallas 18b20
- 5x digital input of factory switches (max 16 V)
- 3x digital alarm input O/C (max 16 V)
- 1x digital limit switch input O/C (max 16 V)
- 1x digital shore power state input (max 16 V)
- 1x analog solar panel input (max 20 V)
- 1x analog input for starting battery voltage (max 16 V)
- 1x input for accurate current measurement to / from the leisure battery
- 1x digital input for acquiring of ignition key status
- 1x power input for water tank heating output
- 1x power input for acquiring of power supply state
- 10x power input for PWM outputs

Outputs

- 1x output for water tank heating (max 10 A)
- 1x output for pump switch (max 10 A)
- 1x PWM output for air exchanger (max 5 A)
- 1x siren output (max 0,5 A)
- 5x PWM output for lighting control (max 10 A)
- 5x PWM output for lighting control (max 4 A)
- 1x power output for air quality sensors (Vbat, max 1A, max 3pcs)
- 2x signal output for water level measurement in the water tanks (singal source)
- 4x push/pull output for the control of external devices (max 20mA)
- 1x output for door lock controlling (Vbat, max 5A)

Communication interfaces

- 1x RF 2,4 GHz Bluetooth 4.0 Low Energy
- 1x GSM module 850/900/1800/1900 MHz
- 1x ISM module 868 MHz
- 1x LIN-BUS
- 2x RS232 – connection for LEO modem and external GPS receiver
- 1x USB – service connector
- 1x CAN-Bus – connection of craft bus
- 2x UART 5V – connection to external devices
- 1x RS485 – connection to external devices

Disposal of electronic devices



This symbol labeled on the products stands for the prohibition of disposal of electric and electronic devices in the general communal waste. For proper disposal, renewal and recycling of these products, please use the specified disposing areas. Alternatively, in some European Union countries or other European countries you can return your products to the local provider upon purchase of a new equivalent product. With proper disposal of this product you will help the preservation of valuable natural resources and prevention of potentially negative impacts on the environment and human health, which could be the result of an inappropriate disposal of this product. Contact local bureau or disposing area for additional information. By improper disposal of this type of waste, sanctions may be imposed upon you in accordance with national laws. For company subjects of the EU countries: Should you wish to get disposed of electric or electronic devices, ask your supplier or provider for required information. Disposal in countries outside EU: This symbol is valid in the Eueopean Union. If you wish to dispose of this product, get required information from the local bureau or from your provider.

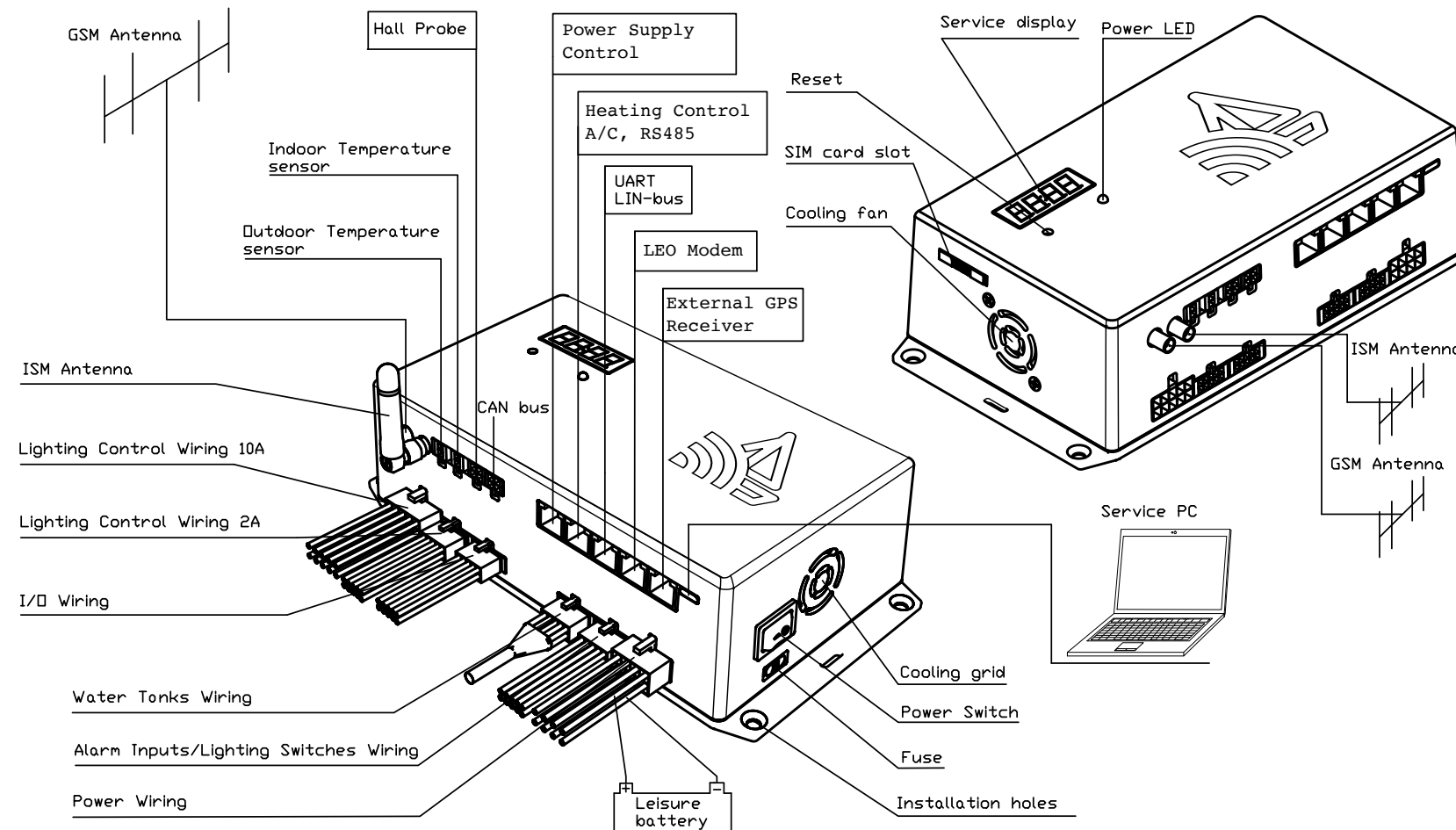
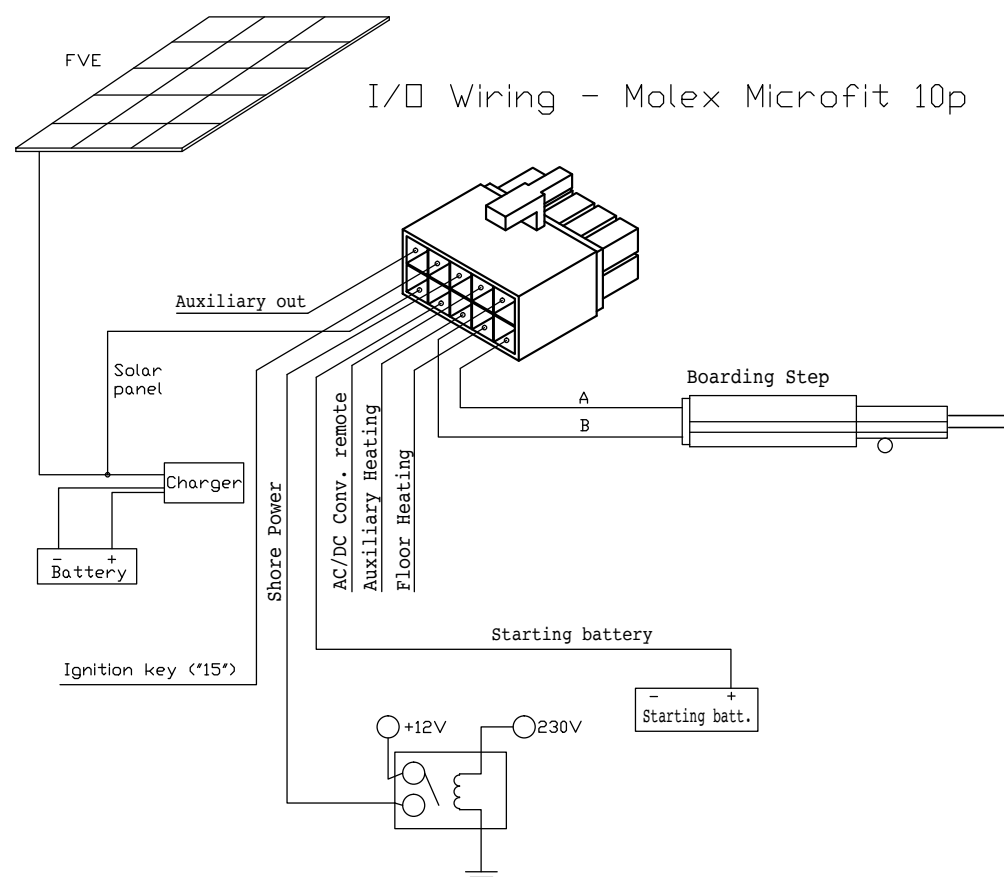
Instructions and information regarding the handling of used materials

Dispose of used materials at the spot defined by the town's regulations.

This product fills all of the basic requirements set by the EU directives. Changes to the texts, design and technical specifications may change without prior notice and we claim all the rights to do so.

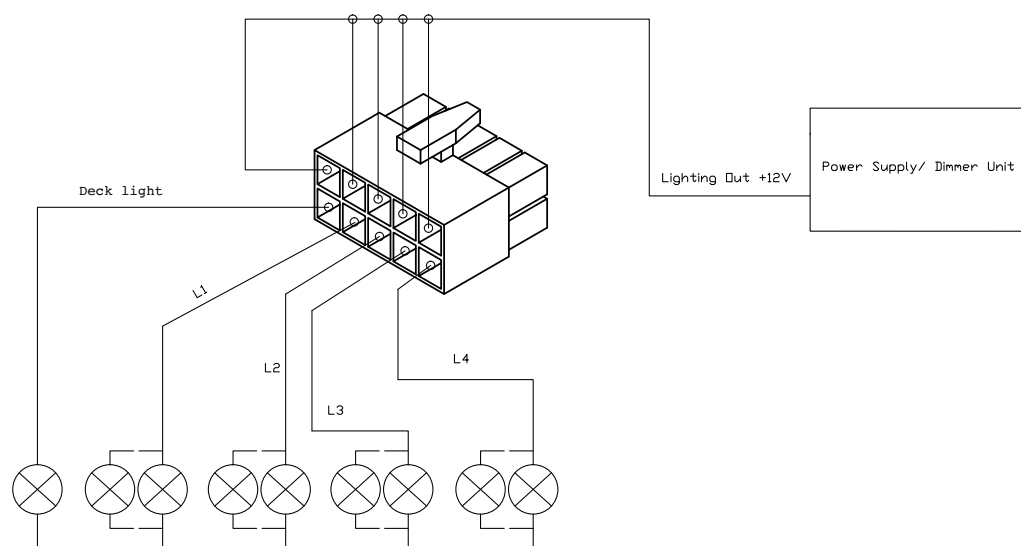


Installation Diagram v1.0

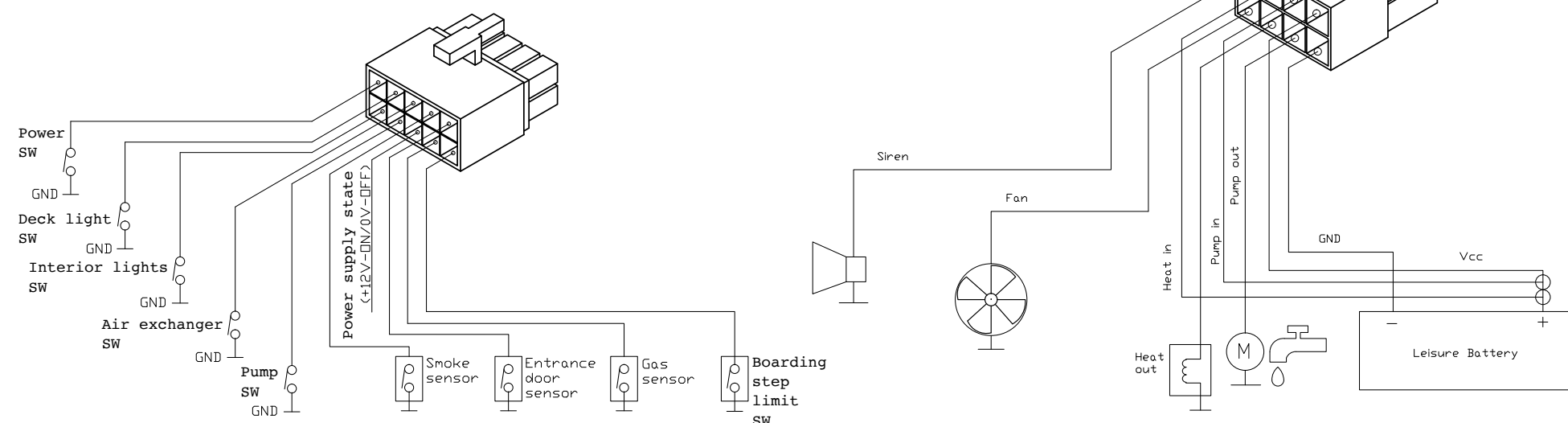


In case of purchasing the MariControl Security Package use included self-adhesive external ISM antenna to ensure maximum signal level of wireless peripherals.

Lighting Control Wiring 10A - Molex Minifit 10p



Alarm Inputs/Switches Wiring Molex Microfit 10p



Power Wiring - Molex Minifit 8p

