DATASHEET

NOVA15 MONITORING UNIT

1. General Information	Page 2
2. Technical Data	Page 6
3. Technical Drawing	Page 7
4. Certifications and Compliance	Page 9

1. GENERAL INFORMATION

The main management unit of the Onboard system and a plug-and-play device for real-time monitoring of vessel systems.

Nova15 is an advanced onboard server designed to function as the central processing hub for modern marine infrastructure. Acting as the primary management unit of the Onboard system, the device connects directly to onboard systems via standard marine communication protocols, enabling seamless data acquisition from multiple sources, including engines, generators, propulsion systems, and auxiliary equipment.

With its plug-and-play architecture, Nova15 allows for immediate deployment with minimal configuration, offering unprecedented operational transparency. By focusing on real-time data transmission, Nova15 operates as a high-performance gateway, streaming critical system information directly to user interfaces.

Key Applications

- **Primary Onboard System Processor Central server managing system logic and data distribution to various onboard displays and terminals.**
- **Real-Time Systems Monitoring Instantaneous reading and presentation of operational parameters (engines, generators, auxiliary systems) in live mode.**
- **Multiprotocol Gateway Integration Seamless communication and data conversion between NMEA 2000, CAN, and RS-485 standards.**
- **Vessel Infrastructure Management Centralized control point for yacht automation systems, lighting, and peripheral equipment.**
- **IP Network Data Distribution Streaming of key system parameters to mobile devices and touch panels via Ethernet (RJ-45).**

Distinctive Features

- **Comprehensive Interface Suite: Full support for NMEA 2000, CAN, RS-485, and RJ-45 communication buses.**

- **Plug-and-Play Architecture: Minimal installation time and immediate readiness for integration into the Onboard ecosystem.**
- **Real-Time Operating Performance: Optimized for maximum responsiveness with zero-latency data transmission.**
- **Secure Browser-Based Access: Full system overview via a standard web browser, requiring no additional software installation.**

IMPORTANT INFORMATION

READ THIS DATASHEET BEFORE ATTEMPTING TO INSTALL THE DEVICE

Read the contents of the datasheet before installation. Failure to follow the recommendations in the datasheet and other requirements of diligence appropriate to the nature of the equipment may: prove hazardous to life/health, cause damage to the equipment or the installation to which it is connected, result in damage to other property, or violate other applicable regulations. The manufacturer of the equipment, Yacht Concept sp. z o.o., assumes no liability for damages (property and non-property) resulting from installation and/or use of the equipment not in accordance with the datasheet and/or due care in handling the equipment in question.

WATCH THE PARAMETERS

The device's power supply, permissible load or other characteristic parameters must comply with the device's specifications.

DO NOT MODIFY

Do not modify this device in any way not included in this datasheet.

OTHER DEVICES

The manufacturer, Yacht Concept sp. z o.o. will not be held responsible for any damage or loss of warranty privileges for other connected devices if the connection is not compliant with their datasheets.

TECHNICAL SUPPORT

If you have any technical questions or comments on the operation of the device, contact Yacht Concept technical support.

NOT A TOY

The product is not intended for children or pets.

SAFETY INFORMATION

ELECTRICITY

Dangers of life caused by electricity.

PROPER USAGE

The components of the system (individual devices) are designed for operation on yachts. Incorrect connection or use may cause fire or electric shock.

INSTALLATOR

Any work related to the installation of the device, especially work involving interference with the electrical system, can only be performed by a person with the appropriate qualifications or authorizations.

POWER SUPPLY

When installing the device, make sure to disconnect the power supply voltage in the circuit in which this device is connected or in the vicinity of which the installation takes place.

MOISTNESS

To avoid risk of electrical shock, do not operate the device with wet or moist hands. Do not use in damp or wet locations, near a bathtub, sink, shower, swimming pool, or anywhere else where water is present.

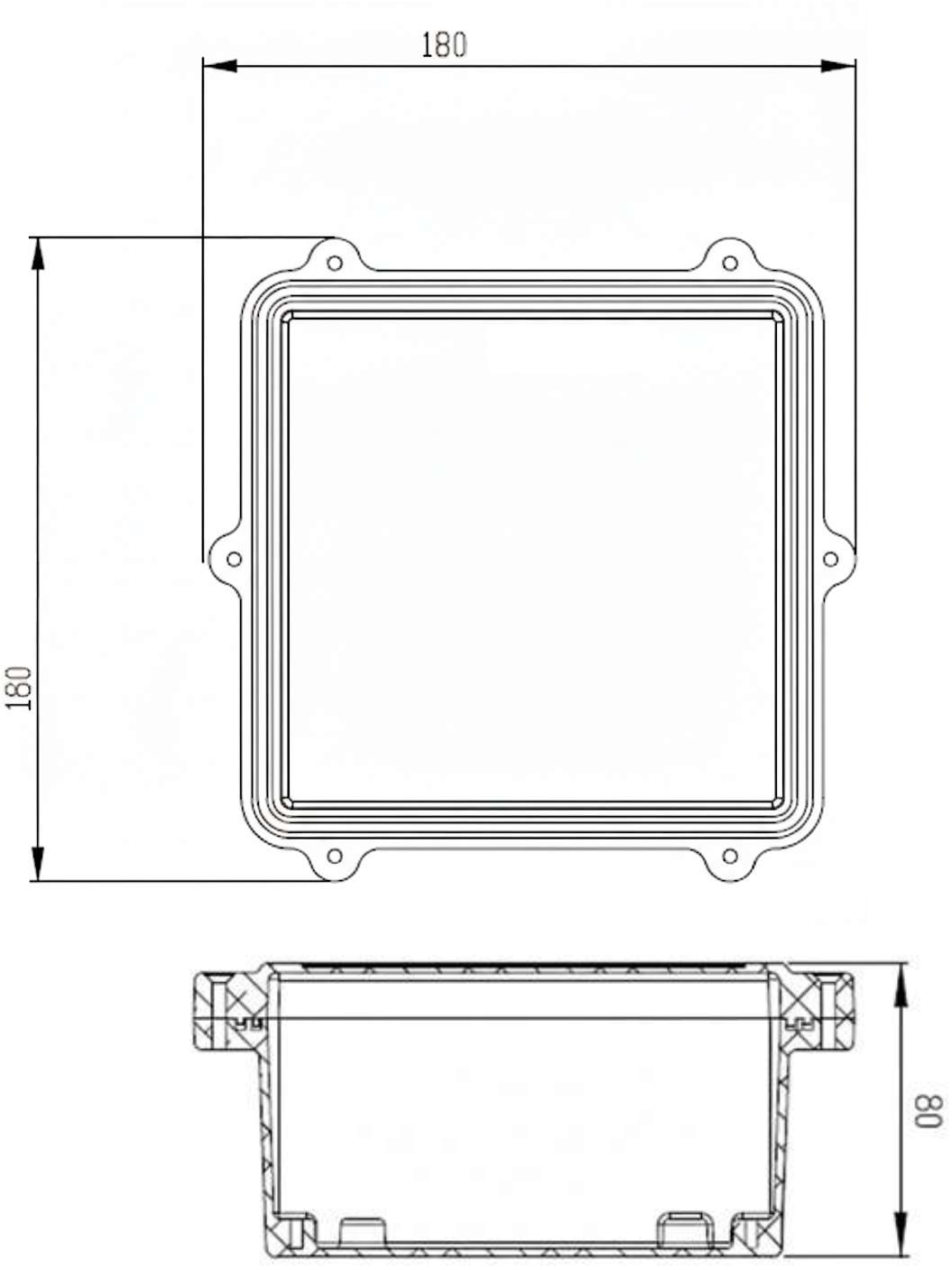
CONNECTORS BRIDGE

Do not connect inputs or outputs by bridges to achieve higher current. This may result in exceeding the maximum current and destroying the device.

2. TECHNICAL DATA

SYSTEM	
Processor	ARM Cortex-A72 1,5 GHz, 4 GB RAM
Software	YC_NV_V1.002
POWER PARAMETERS	
Input Power	9–33 V DC, 2 A
Power Consumption	~ 5 W
COMMUNICATION	
Interfaces	NMEA 2000, CAN, RS-485, RJ-45
MECHANICAL PARAMETERS	
Ingress Protection rating	IP68
Size (W * L * H)	180×180×80 mm
Weight	980g
WORKING ENVIRONMENT	
Operation temperature	-20 °C … +60 °C
Working humidity	0 % … 100 % RH (non-condensing)

3. TECHNICAL DRAWING



PRODUCT PICTURE

Examples of devices to connect:

- **Engine,**
- **Generator,**
- **Watermaker,**
- **A/C System,**
- **All data navigation system,**
- **OnBoard system.**

4. CERTIFICATIONS AND COMPLIANCE

The manufacturer, Yacht Concept sp. z o.o., hereby declares that the Nova15 monitoring unit (model YC-OB-Nova15) conforms to the requirements of the following directives and standards.

COMPLIANCE WITH DIRECTIVES

Directive GPS 2001/95/WE

Directive EMC 2014/30/UE

Directive RED 2014/53/UE

Directive RoHS 2011/65/UE

Directive RoHS 2018/736