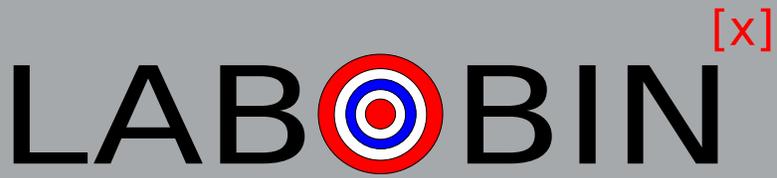




Introducing Labobinx Smart Caravan Control System

Bringing Convenience and Innovation to Caravanning



Welcome to the Labobinx Smart Caravan Control System Presentation

About Labobinx Smart:

- Labobinx Smart is a leading innovator in smart control solutions for caravans.
- Our mission is to enhance the caravanning experience by providing a comprehensive and intuitive control system.

Purpose of the Presentation :

- To introduce you to the Labobinx Smart Caravan Control System and its features.
- To showcase how our device brings convenience, efficiency, and customization to your caravan.

Target Audience:

- Caravan owners and enthusiasts looking to upgrade their control systems.
- Caravan manufacturers and dealers seeking innovative solutions for their customers.
- Anyone interested in advanced technology and smart solutions for recreational vehicles.

Smart Control Panel



Everything on One Screen - Under Your Control

Experience the ultimate convenience with Labobinx Smart Caravan Control System.

All-in-One Control:

- Control all your caravan's electronic devices and lighting from a single screen.
- No more fumbling with multiple switches and controls.

Luxury and Comfort:

- Enhance your caravan with advanced technology and luxurious features.
- Enjoy effortless control and customization of your onboard systems.

Intuitive User Interface:

- Labobinx Smart offers a user-friendly interface designed for ease of use.
- Effortlessly navigate through the control options and settings.

Efficiency and Optimization:

- Streamline your caravan management and save time with centralized control.
- Optimize energy consumption and reduce unnecessary manual interventions.

Personalization:

- Customize the interface according to your preferences and specific needs.
- Tailor the control system to match your caravan's unique setup and requirements.

Multi languages

Supports 6
languages



English



Dutch



French



German



Italian



Turkish

Smart Control Panel

Experience the power of Labobinx Smart's Smart Control Panel.

Intuitive Touchscreen:

- Enjoy effortless control with a 10.1-inch capacitive touchscreen.
- Easily navigate through the system's features and settings.

Comprehensive Device Control:

- Take charge of your caravan's electronic devices and lighting.
- Switch devices on/off and adjust settings with a simple touch.

Motorized Component Management:

- Effortlessly control motorized components, such as awnings or slide-outs.
- Manage their operation and position with precision.

Lighting Control:

- Achieve the perfect ambiance with 7 dimmer lighting controls.
- Enjoy 16-bit LED dimmer PWM resolution and a soft on/off effect.

Environmental Monitoring:

- Keep track of the temperature inside your caravan.
- Ensure a comfortable and suitable environment for your travels.

Water Level Management:

- Monitor water levels with 3 float indicators.
- Easily manage and maintain your caravan's water supply.

Voice Control:

- Control your caravan using English voice commands.
- Enjoy a hands-free and convenient control experience.

Advanced Sensors and Indicators:

- Benefit from built-in sensors like accelerometer and barometer.
- LED indicators provide supply and error indications for easy troubleshooting.

Customization:



- Customize and personalize your control system with Labobinx Smart's fully customizable switches.
- Assign names, symbols, and specific functions to suit your needs.
- Add/Remove lightings buttons instruments

Mobile Application:

- Take control of your caravan through Labobinx Smart's multi-platform mobile application.
- Seamlessly control your caravan's systems from your smartphone or tablet.
- Connect multiple phone simultaneously



Mobile Control



Take control of your caravan anytime, anywhere with Labobinx Smart's mobile application.



Seamless Connectivity:

Connect to your caravan's control system using your mobile phone or tablet.

Stay connected whether you're inside the caravan or remotely located.



Remote Monitoring and Control:

Monitor and control your caravan's systems and devices from a distance.

Check and adjust settings, turn on/off lights, and manage electronic devices.



Easy and Intuitive:

Labobinx Smart's mobile application is designed for user convenience.

Effortlessly navigate through the app's interface for smooth operation.



Real-Time Updates:

Receive real-time status updates and alerts about your caravan's systems.

Stay informed about power usage, temperature, battery levels, and more.



Convenience on the Go:

Enjoy the flexibility of controlling your caravan from anywhere.

Ensure your caravan is ready for your arrival or make adjustments on the fly.



Xroute Controller



Control Unit



The Labobinx Smart Control Unit empowers you with unmatched control capabilities.

Versatile Device Connectivity:

- Connect and control a wide range of electronic devices and components.
- Manage lighting, batteries, level measurements, sensors, motorized parts, and more.

Flexibility and Compatibility:

- Seamlessly integrate Labobinx Smart Control Unit with existing systems.
- Enjoy compatibility with manual and old-fashioned control setups.

Enhanced Dimmer Control:

- Experience precise control with individually configurable dimmer output limits.
- Maximize the lifespan of LED lighting through optimized settings.

Intelligent Energy Monitoring:

- Stay informed about your caravan's power consumption.
- Benefit from the internal current consumption sensor and external auxiliary ammeter.

Reliable Protection Features:

- Ensure the safety and longevity of your caravan's systems.
- Benefit from over-current protection, reverse voltage protection, and resettable fuses.

Accurate Measurements:

- Obtain accurate readings with the 12-bit analog-to-digital converter.
- Monitor various parameters such as temperature, humidity, pressure, and motion.

Intelligent Indicators:

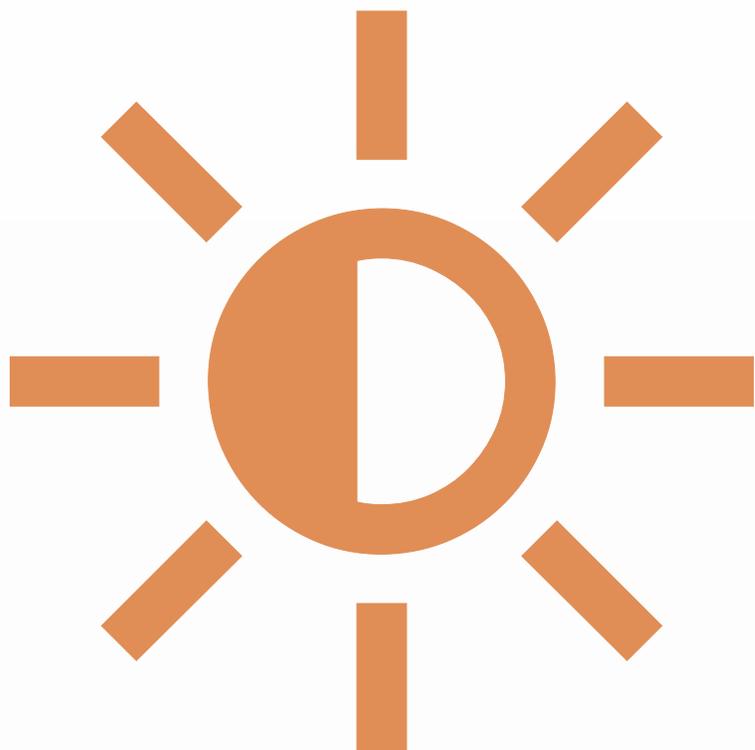
- Receive visual indications with embedded RGB and green LED indicators.
- Easily identify supply and error states for efficient troubleshooting.

Power Efficiency:

- Enjoy reduced power consumption with a PWM-controlled relay for standby power reduction.
- Benefit from idle power consumption of only 1.2 watts.

Wide Range of Voltage Support:

- Operate the Labobinx Smart Control Unit with a supply voltage range of 8-32 volts.
- Ensure compatibility with various power systems.



Lighting Quality:

Experience unparalleled lighting quality with Labobinx Smart Caravan Control System.

Smoothness of Lighting:

- Enjoy smooth and flicker-free lighting control thanks to the high-resolution 16-bit LED dimmer PWM (Pulse Width Modulation).
- Achieve precise and gradual lighting adjustments for the perfect ambiance in your caravan.

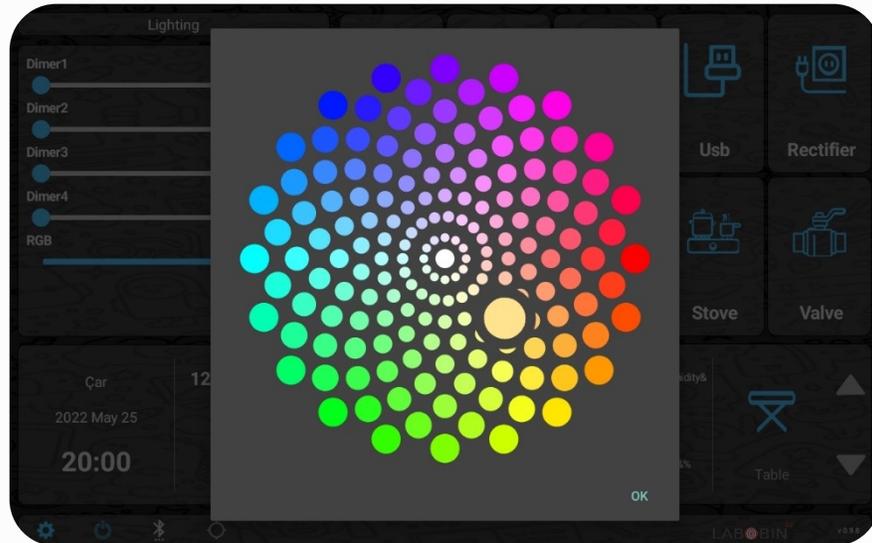
Prolonged LED Lighting:

- Increase the lifespan of your LED lights by configuring individually adjustable dimmer output limits.
- Limit the LED current to ensure optimal operation and longevity of your LED lighting fixtures.

Short Circuit Protection:

- Benefit from enhanced safety measures with built-in short circuit protection for each individual output.
- Protect your lighting system and devices from potential damage due to short circuits.

RGB Lighting Capabilities and Color Palette



RGB Lighting Capabilities: Elevate your caravan's lighting design with Labobinx Smart Caravan Control System.

Multifunctional Outputs:

- Harness the power of Labobinx Smart's seven dimmer outputs for versatile lighting control.
- Combine three outputs to control RGB LED lighting, allowing for stunning color effects and ambiance.

Customizable Color Palette:

- Select from a wide range of colors using the Labobinx Smart's color palette.
- Personalize the lighting experience by choosing the perfect hue to

Endless Lighting Possibilities:

- Create dynamic lighting scenes and effects using the RGB capabilities of Labobinx Smart.
- Illuminate your caravan with captivating and vibrant lighting arrangements, tailored to your preferences.



Sensors and Tank Level Control

Liquid level measurement



Labobinx Smart Caravan Control System offers advanced sensor capabilities for precise monitoring and control of tank levels.

Multiple Sensor Compatibility:

- Connect to various types of floaters, including ohmic floaters and 4-20mA level sensors.
- Compatible with different types of floaters, such as capacitive floaters.

Tank Calibration:

- Calibrate the device by filling and emptying the tanks, ensuring accurate readings.
- Customize the calibration process to match your specific tank configuration and requirements.

Flexible Unit Measurement:

- Display tank levels in percentage or define the tank volume in liters for precise measurements.
- Choose the unit that best suits your preferences and needs.

Automation Capabilities:

- Automate actions based on clean water and dirty water levels to streamline operations.
- Enable automation for tasks such as protecting the water pump or activating evacuation valves.

Reverse Position Calibration:

- Calibrate floaters in the reverse position if necessary.
- Ensure accurate readings even in unconventional installations or setups.

Other Sensors and Connectivity

Labobinx Smart Caravan Control System offers a range of additional sensors for enhanced monitoring and connectivity.



Spirit and Altitude level sensor



- Embedded Accelerometer and Altitude Sensor
- Monitor your caravan's movement and track changes in elevation.

Other Sensors



Current Sensor:

Measure lighting current and overall device current consumption with the built-in current sensor. Gain insights into power usage and optimize energy efficiency.



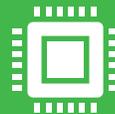
Temperature Sensor:

Included out of the box, the PT100 temperature sensor provides accurate temperature readings. Monitor the temperature inside your caravan for optimal comfort and safety.



Multiple RJ45 Sensor Ports:

Utilize three RJ45 sensor ports for versatile sensor connectivity. Connect humidity and temperature sensors, gas sensors, and a heavy-duty external ampere meter.



Custom I2C Sensor Support:

Expand the sensor capabilities by adding custom I2C digital sensors through the available ports. Integrate additional sensors tailored to your specific monitoring needs.

Battery Measurement



Labobinx Smart Caravan Control System offers advanced battery measurement for precision and flexibility.

Battery Type Flexibility:

- Measure different battery types with ease using flexible voltage calibration.
- Define empty and full voltages for accurate readings across various battery types.

12/24 Volt Battery Pack Systems:

- Seamlessly integrate Labobinx Smart with 12-volt or 24-volt battery pack systems.
- Enjoy compatibility with different battery configurations commonly used in caravans.

Sensitive Voltage Measurement :

- Benefit from precise voltage measurements using the dedicated input port, ensuring accurate battery monitoring and management.

Automation Possibilities:

Water Pump Protection:

- Set up automation to protect the water pump from dry running or low water levels.

Dirty Water Overflow Protection:

- Automate actions to prevent dirty water overflow, ensuring efficient wastewater management.

Water Tank Freezing Protection:

- Implement automation to protect water tanks from freezing temperatures, avoiding damage.

Humidity Automation:

- Add automation to maintain optimal humidity levels, ensuring a comfortable environment.

Low Fuel Air Condition:

- Automate the air conditioning system to turn off during low fuel situations, preserving energy.

Timer for Motor Outputs:

- Set timers for motor outputs, allowing for scheduled operations such as awning retraction.

Bluetooth Password:

- Customize the Bluetooth password for secure and personalized device connectivity.

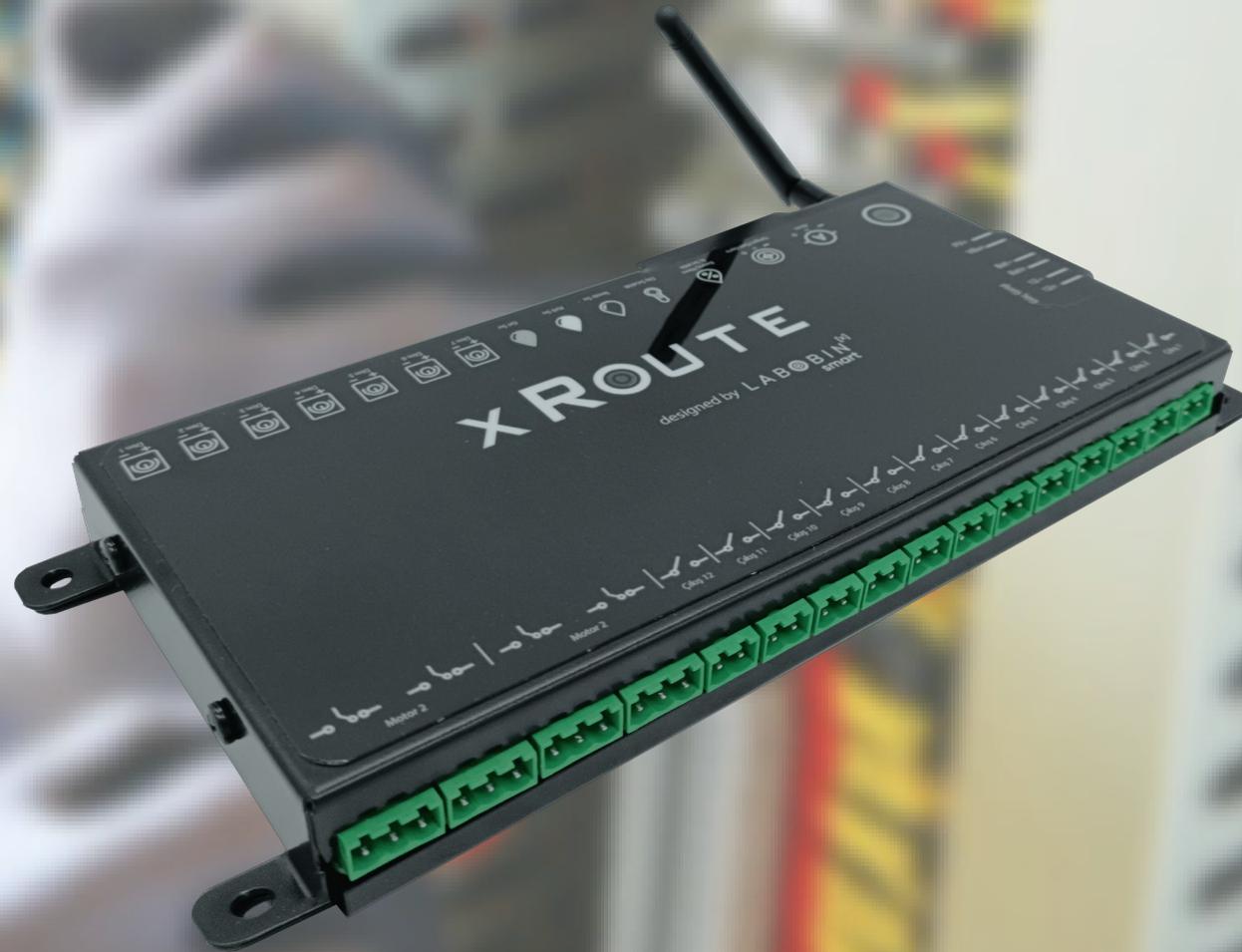
Text Size Adjustment:

- Modify text sizes to suit individual preferences for enhanced visibility and readability.

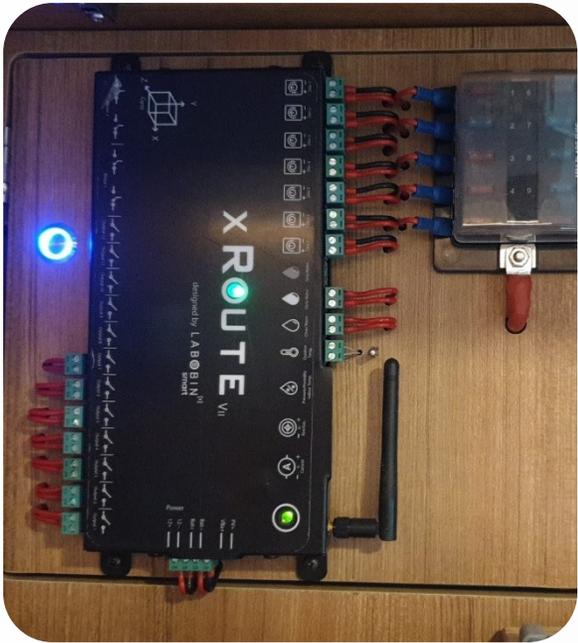
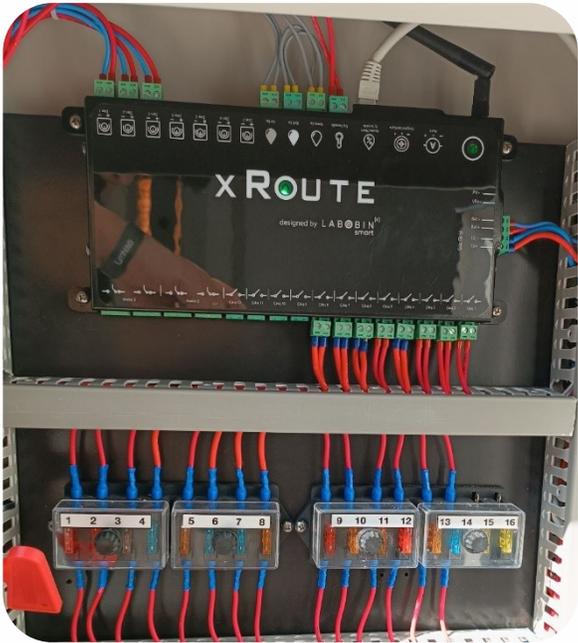
And more:

- Explore a range of additional automation options and personalized settings for optimal control.

Easy Setup



Streamlined Electrical Montage and Neat Organization:



Easy Montage:
Hassle-free wiring and clear instructions.



Neat Appearance:
Eliminate clutter for a professional look.



Enhanced Safety: Reduce hazards, troubleshoot easily.



Efficient Space:
Maximize storage with a compact design.



Professional Installation:
Impress with a sleek interior.

