WiNano IP Controller

Wireless IP Controller BLE to RS485 Gateway

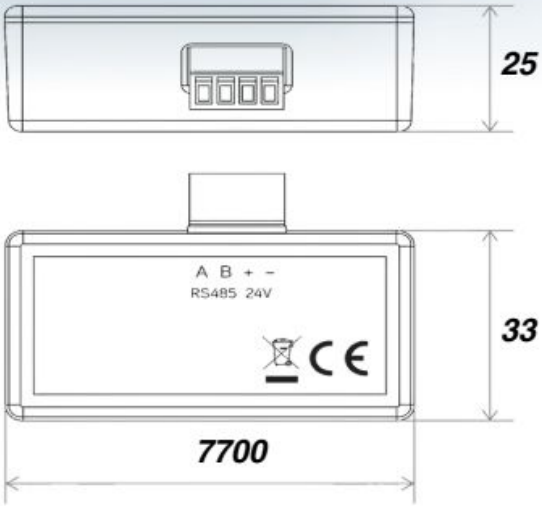
LX-WiNano



Experience seamless wireless connectivity with the Luxio Controls WiNano. Designed as both a Wireless IP Controller and BLE-to-RS485 Gateway, it enables reliable communication between BLE devices and the hotel automation network, providing flexible installation, simplified integration, and intelligent room control.

Luxio Controls Hospitality Management Systems
www.luxiocontrols.com | info@luxiocontrols.com | +41 61 539 15 89

Dimensions
(in mm)



Operational Modes

Wireless Controller: LX-WiNano functions as a wireless controller, operating with external peripherals like keypads, relay modules, RFID-panels via its RS485 channel.

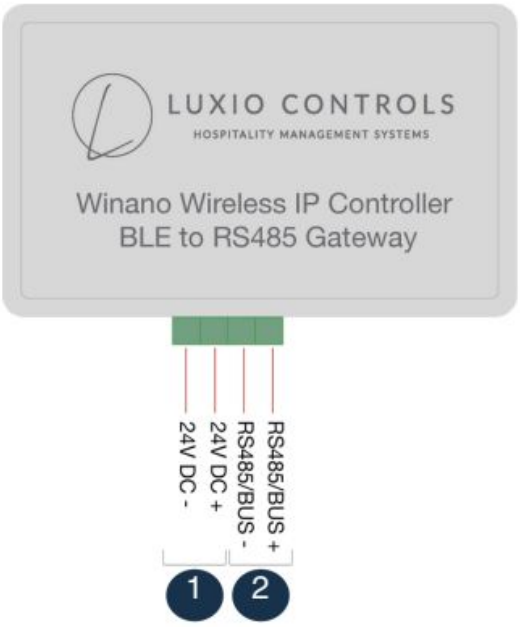
BLE-to-RS485 Converter: WiNano can be configured in slave mode as a BLE-to-RS485 converter, serving as a gateway between up to 4 BLE devices (such as door or window sensors, PIR sensors) and main controller (such as LX-MCR12 or LX-MCR8-V00) via the RS485 bus.

Technical Specifications

Parameter	Value
Product Name	LX-WiNano
Power Supply	VDC 24V ± 20% 0.5A
Physical Interface	Wired
Max Cable Length	30 m
RS-485 Interface	1x port, up to 8 devices
Wireless Network	802.11 b/g/n, Bluetooth v4.2 BR/EDR and Bluetooth LE 4
Number of Connectable BLE Devices	up to 4 devices
Operating Temperature Range	0 °C - +45 °C
Operation Humidity Range	30% to 85% non-condensing
Storage & Transportation Temperature Range	-10 °C - +70 °C
Case Material	ABS V0 flame retardant
Dimensions (W x H x D)	70 x 33 x 25 mm
Weight	80 g
Protection Level	IP20, for indoor use only

Wiring Diagram and Functions

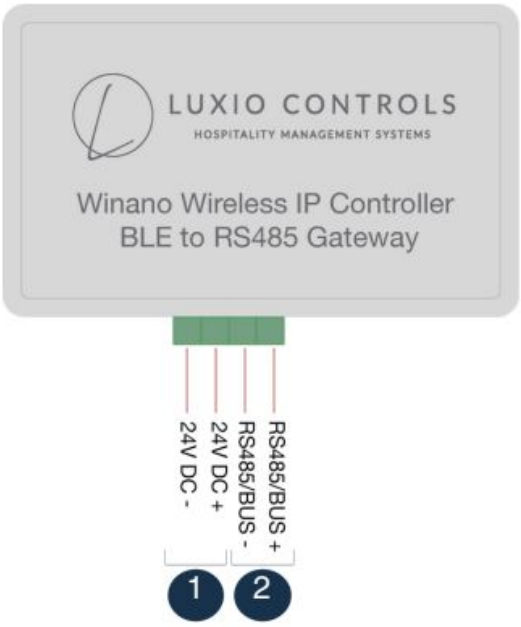
Mode 1: Wireless Controller



1 Power Connector

2 RS485 Bus Connector (LX-WiNano is Modbus Master)

Mode 2: BLE-to-RS485 Converter



1 Power Connector

2 RS485 Bus Connector (LX-WiNano is Modbus Slave)

About Luxio Controls

Luxiospecializes in hotel automation solutions for both the retrofit and new-build markets. We use state-of-the-art technologies to increase the energy efficiency of hotel rooms and the pro- ductivity of hotel staff by streamlining operating processes. Our products have been developed for the hotel industry.

Luxio typically saves hoteliers an average of up to 40% in energy costs and 30% on staff count per property. Luxio is known to increase guest satisfaction, which is positively reflected in online guest reviews. According to a US Environmental Protection Agency calculation, installing one Luxio Room Kit is equal to planting 535 trees.

Luxio Controls Hospitality Management Systems
Messeplatz 10, 4058 Basel, Switzerland
+41 61 539 15 89
info@luxiocontrols.com
www.luxiocontrols.com

© 2026 Luxio Controls | All rights reserved.