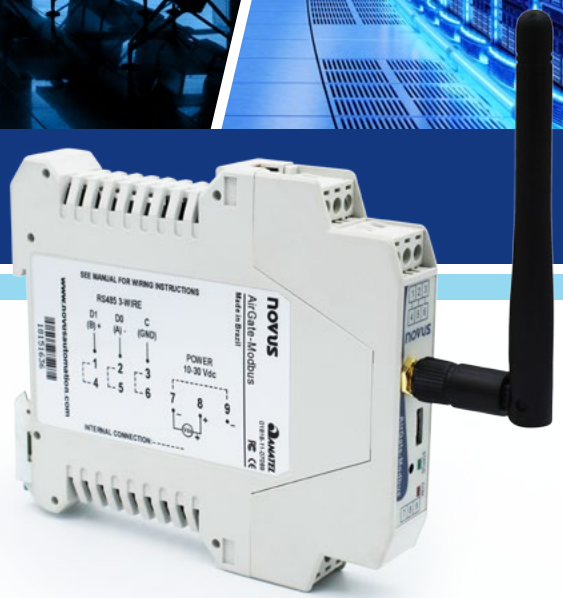
AirGate Modbus

Wireless - Modbus Gateway



- ✓ Designed to build **wireless sensors** network.
- ✓ **Long range** wireless communication - up to 1000 m (3200 ft)
- ✓ **IT independent** wireless network
- ✓ Allows wireless extension of **RS485 Modbus** networks
- ✓ **Easy network** scalability

AirGate Modbus is a gateway specially designed to build a wireless sensor network. It can be used as a Modbus RS485 network extender, offering flexibility and scalability for various networks.

This device stands out in several aspects. Firstly the long range wireless communication - up to 1000 m (3200 ft). Operating with NOVUS-Air protocol (802.15.4), in a self-contained wireless network, AirGate Modbus works independently from the IT infrastructure. Its communication has data traffic security, assured by 128-bit encryption, and smart hopping on free-of-interference available frequencies, providing stability and reliability for the wireless link.

Simple installation and configuration combined with diagnosis feature make AirGate-Modbus an outstanding wireless device for field commissioning and the right solution for applications requiring flexibility, high performance and connectivity.

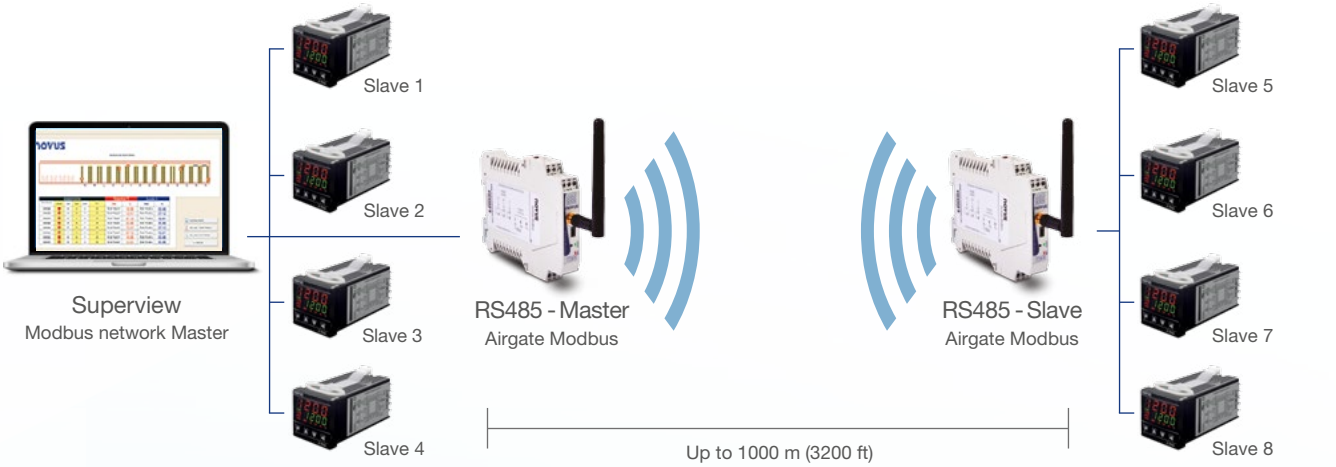
APPLICATIONS

- Pharmaceutical
- Data Centers
- Automation
- Airports
- Distribution Centers

TECHNICAL SPECIFICATIONS

Communication Interfaces	Micro-USB Type-B, RS485 and IEEE802.15.4
Protocols	Modbus RTU and NOVUS-Air
Network Topology	Point-to-point, star and tree
Wireless Features	ISM 2.4 GHz, DSSS, OQPSK, 15 channels, Tx Power 20dBm, Sensitivity -96dBm, Line-of-Sight Range 1000 m (3200 ft)
Security Features	AES-CBC-128 Encryption
Operation Mode	RS485-Master, USB-Master, Multi-Master, RS485-Slave
Power Supply	10-30 Vdc
Programmable Functions	Operation mode and Communication Settings
Configuration	Yes, via USB with configuration software DigiConfig
Housing	PA66
Dimensions	99.5 x 114 x 17.5 mm + Antenna 105 mm / 3.92 x 4.49 x 0.69 in + Antenna 4.13 in
Operating Conditions	Temperature -10 to 70 °C (14 to 158 °F) / Humidity 80% up to 30 °C (86 °F)
Protection Rating	IP20
Electric Protection	Reverse Polarity
Certifications	CE, FCC, ANATEL (01818-11-07089)

WIRELESS EXTENSION OF RS485 MODBUS NETWORK TOPOLOGY



SCALABLE WIRELESS NETWORK TOPOLOGY