

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

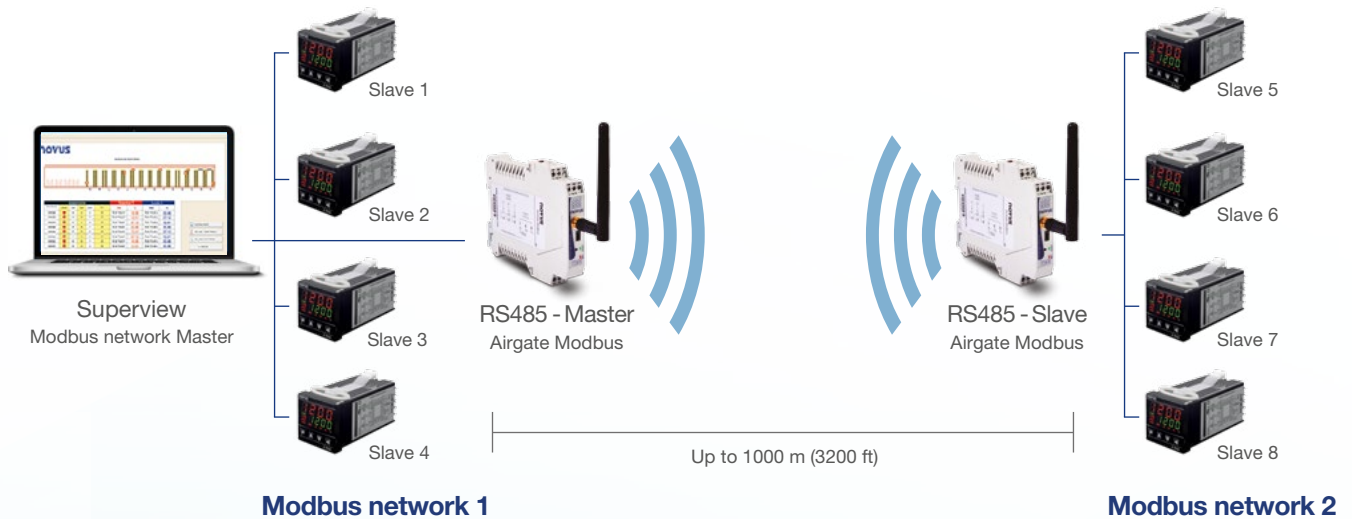


Distribution
Centers

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

