INTRODUCTION

AirGate-Modbus is a wireless multifunctional gateway that allows the transparent and easy insertion of wireless branches into existing wired RS485 networks. The AirGate-Modbus has four operation modes, Modbus Master, multiplexer, USB-RS485 converter and simple wireless RS485 extension. A proprietary protocol based on IEEE 802.15.4 facilitates operation in Star mode, allowing the connection of several wireless segments to an existing Modbus RS-485 network.
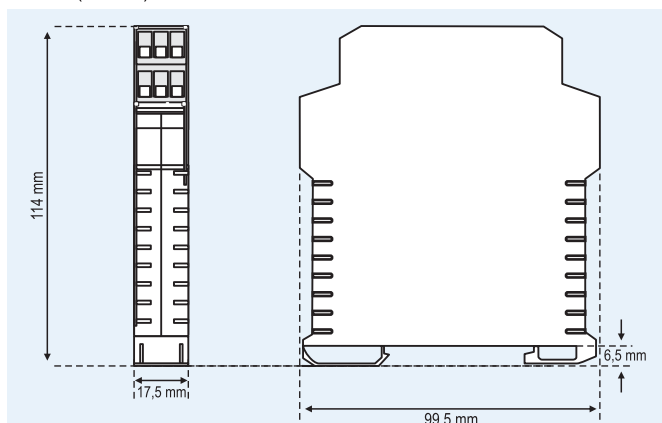

WIRELESS

SPECIFICATIONS

- Operating Band ISM 2.4 GHz
- Star network topology operation
- Up to 16 operating channels
- Maximum transmission power up to 100 mW
- Indoor range up to 100 m and 1000 m outdoors
- RF data rate up to 250 Kbps
- Network identifier (PAN ID)
- AES-CBC-128 Data cryptography (Advanced Encryption Standard)
- Serial port Baud Rate 1200 to 115.2 Kbps
- Power Supply 10 to 35 Vdc
- Power consumption 70 mA (@ 24 Vdc)
- Operating Temperature 0 to 70 °C
- Relative humidity 80 % to 30 %
- IP20 Enclosure

FEATURES

- Allows 4 operating modes: RS485-Master, RS485-Slave, USB-Master and Multi-Master
- RP SMA female connector (Plug)
- Antenna gain 2 dBi
- Two RS485 connector for Modbus RTU interface
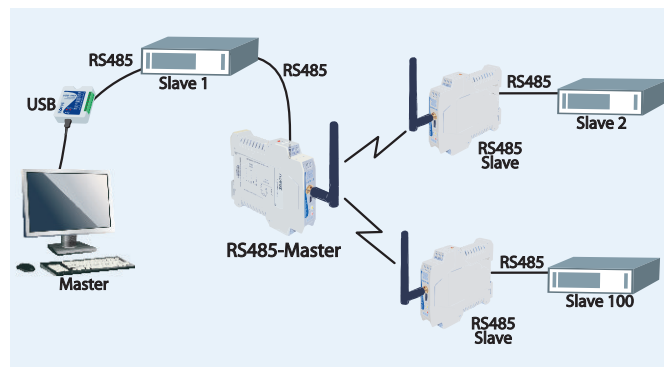- USB Device (Mini-B)
- Status indication LEDs

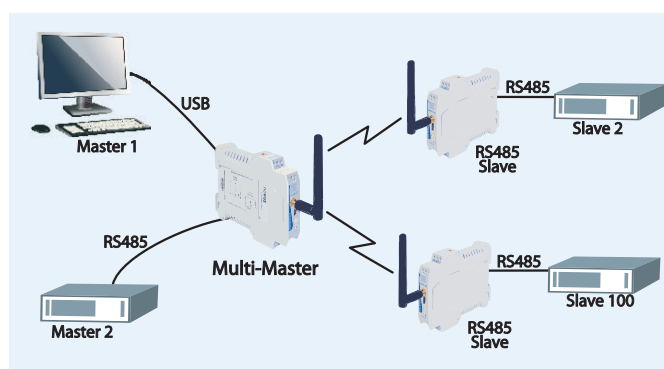## INSTALATION

DIN Rail (35 mm) mountable enclosure.

APPLICATIONS

RS485-MASTER

MULTI-MASTER

USB-MASTER