

# Modbus Gateway

Programmable Modbus IoT converter



**Modbus Gateway** is designed for easy integration of **Modbus RTU** and **TCP/MQTT/SNMP** networks. With this device, Modbus serial slave devices can be seamlessly added into an existing Modbus TCP network, and Modbus TCP slaves can be made accessible to serial masters.

It also has a **remote web access panel** that allows you to manage groups of devices. That makes integration customizable and easy.



Modbus Gateway

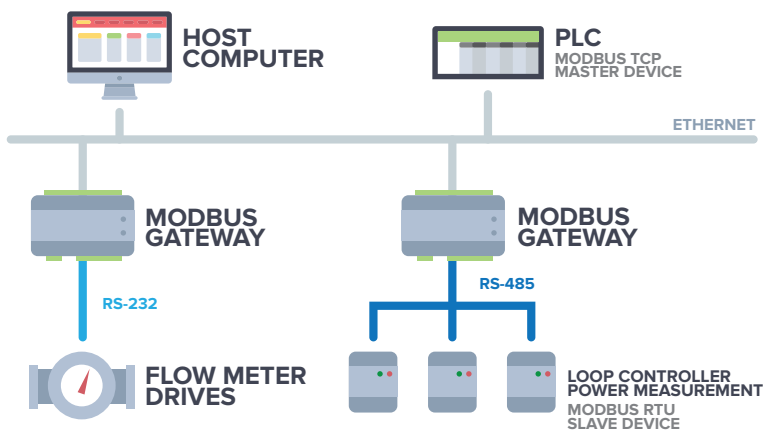
## Modbus Gateway can be used as:

- Protocol and Interface Converter
- Data logger
- Embedded Web Server
- Embedded Computer
- Telemetry/IoT Module
- PLC
- Industrial Modem and GPRS, 3G, 4G/LTE Router
- I/O Expansion Module
- GPRS, 3G, 4G/LTE Notify Module
- Access via Website (Visualize)
- GPS module

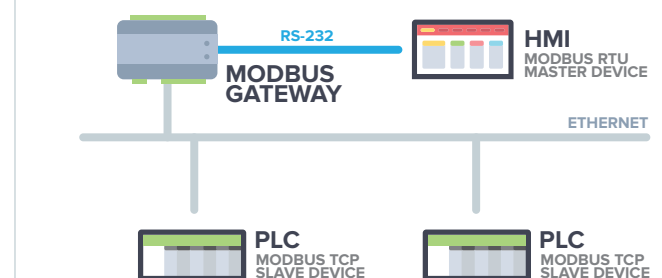
## Features of adaptation to industrial conditions:

- Low energy consumption
- RTC Battery-powered Real Time Clock (RTC)
- WatchDog function ensures hardware operation control of selected services
- Effective file systems used for FLASH memory, ensuring long, failure-free operation
- Compact, durable housing made from ABS plastic, adapted to installation on a DIN bus
- Easy installation due to the use of disconnectable screw terminals
- No moving elements (fans, platter disks)
- Operating temperature range: -25 ~ 80°C

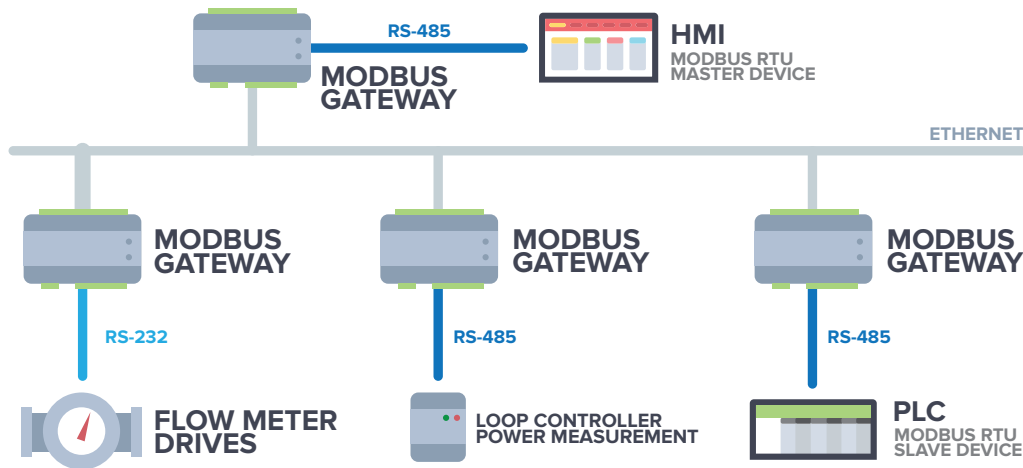
## Modbus RTU Slave Mode



## Modbus RTU Master Mode



Modbus Gateway devices allows Modbus RTU Master and Slave devices to connect with LAN/Internet network.



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## SPECIFICATION

### ETHERNET INTERFACE

Protocols	Modbus TCP, MQTT, SNMP
Number of ports	up to 2 ports
Bandwidth	100 Mbit/s
Connectors	RS45

### SERIAL INTERFACE

Protocols	Modbus RTU/ASCII Master/Slave
Number of ports	1/2/4/8
Serial communication standard	RS-232/485
Connectors	Screw terminal
Isolation protection	Overvoltage protection transil bidirectional 24V DC, Peak 600W

### SERIAL INTERFACE SIGNALS

RS-232	TxD, RxD, GND
RS-485	Data+, Data-

### SOFTWARE

Configuration	Web-panel, SSH console, Telnet console, serial console
Software type	Linux (Kernel 4.0+), iMod, iModCloud
Network protocols	TCP, UDP, HTTP, SMTP, NTP, DNS, DHCP Client, SNMPv1 (agent), SNMPv2 (agent), ARP, Telnet
Multi-master and Multi-drop	Master mode: 128 TCP slaves/servers Slave mode: 256 TCP masters/clients

### POWER SUPPLY

Supply voltage	7 ~ 30 V DC, recommended: 12V DC 1A
Power consumption w&w/o modem	2 W - 5 W (typically 3 W) / 4 W - 10 W (typically 5 W)

### MECHANICAL CHARACTERISTICS

Data storage	Internal memory 4GB EMMC, External storage USB
Casing and mounting	ABS, DIN rail mounting
Dimensions	35 x 101 x 120 mm or 91 x 106 x 61 mm
Work/storage conditions	-25 ~ 80°C, humidity: 5 ~ 95% RH (non-condensing)

### MANUFACTURER

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