

Product Catalogue



SCIGATE AUTOMATION (S) PTE LTD

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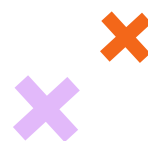
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exemys





We are a company dedicated to **developing and manufacturing** electronic equipment for **Telemetry and Connectivity** of Remote and Dispersed Assets Remote and Dispersed Assets, with a strong motivation in the permanent Technological Innovation.

WHO WE ARE

- Argentine company, founded in 1998
- ISO9001:2015 Quality Certification
- Members of the MODBUS Organization
- Export of products to more than 70 countries
- Incorporated to the Software Promotion Law
- Know How and own manufacturing, Argentine Industry
- Product Certification:
 - IEC 60950-1 (Electrical Safety)
 - INTI-ATEX (Explosive Environments)

www.exemys.com



IRAM-ISO 9001:2015



LEY DE SOFTWARE
EMPRESA CERTIFICADA



MIEMBROS DE LA
ORGANIZACION



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IIoT TELEMETRY SYSTEM

4G Cellular Telemetry
Satellite Telemetry
MQTT Telemetry
LAN/WiFi Telemetry
2.4GHz Mesh Telemetry
LoRaWAN Telemetry
Serial Server



IIoT INDUSTRIAL TELEMETRY DEVICES

Industrial Telemetry IIoT with Cellular Communication (Optional with Satellite modem)

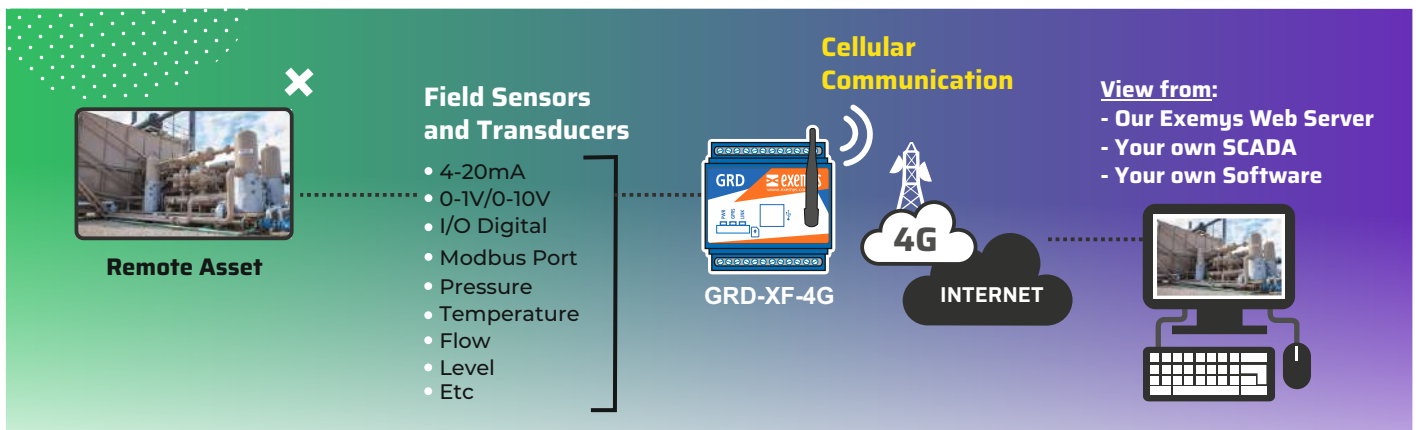


GRD-XF-4G Product Family

With the GRD-XF-4G product series with 4G cellular communication, you can remotely monitor and control sensors, transducers, or devices located in remote and dispersed locations.

The information can be viewed using:

- Your own SCADA system.
- Your own monitoring software.
- Through our Web Server, with an intuitive graphical visualization interface."



TECHNICAL FEATURES

- 4G Cellular Communication
- Latin American and Global Bands
- 4-20mA and 0-10V Inputs
- Digital Inputs and Outputs
- Pulse Counting Inputs
- RS232/485 Serial Ports

GENERAL FEATURES

- Modbus Master Protocol on RS232/485 port
- Remote Serial Port (Modbus or Transparent)
- I/O Expansion via MODBUS port
- Modbus Slave Protocol for local I/O access
- Programming logic via text SCRIPTS
- Data publishing in WITS Protocol (via Script)
- Alarms and Control via SMS messages
- Event Logging: Online and Offline
- Automatic reconnection in case of link failure
- Over-the-air Firmware Update
- Visualization of acquired information:
 - Your own SCADA Software
 - Your own monitoring software
 - Our Web Server for Telemetry applications





cLAN

Industrial IIoT Telemetry with Ethernet/WiFi Communication

cLAN-XF Product Family

With the cLAN-XF product series, you can remotely monitor and control sensors, transducers, or devices located in dispersed locations.

The information can be viewed using:

- 1) Your own SCADA system.
- 2) Your own monitoring software.
- 3) Through our Web Server, with an intuitive graphical interface for data visualization.

Remote Asset to Monitor and/or Control



Field Sensors

- 4-20mA
- 0-1V/0-10V
- Digital I/O
- Modbus Port
- Pressure
- Temperature
- Flow
- Level
- Etc

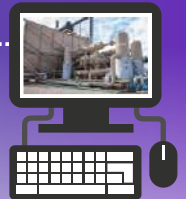


cLAN-XF

WiFi/LAN

(According to the model)

INTERNET



Access from:

- Exemys Web Server
- Your own SCADA
- Your own Software"

TECHNICAL FEATURES

- Ethernet or Wi-Fi communication
- 4-20mA and 0-10V inputs
- Digital Inputs and Outputs
- Pulse Counting Inputs
- RS232/485 Serial Ports

PROGRAMMABLE WITH SCRIPTS

Program Special Functions

- Mathematical Operations
- Logical Operations
- Timing Operations
- Reading of Internal Inputs
- Turning Digital Outputs On and Off
- Serial Port Data Interpretation
- MQTT Data Publishing/Receiving

ADDITIONAL FEATURES

- Modbus ASCII to Modbus TCP Converter
- Modbus RTU/ASCII to SNMP Converter
- Modbus TCP to SNMP Converter

GENERAL FEATURES

- Modbus Serial and TCP Slave for direct connection to a SCADA
- I/O expansion via Modbus Master, integrated in the device
- Event logging with Date and Time
- NMEA 0183 and MetPak (Gill Instruments) protocols
- SNMP V1 protocol with trap sending
- FTP client for log uploads
- Internal programming logic via SCRIPTS
- Data publishing in WITS serial protocol (via Script)
- Transparent encapsulation of serial communication protocols
- Free Port (User-programmable protocol via Scripts)
- Automatic reconnection in case of link failure

Web Server for Telemetry developed by EXEMYS



MQTT Industrial Telemetry with 4G Cellular Communication

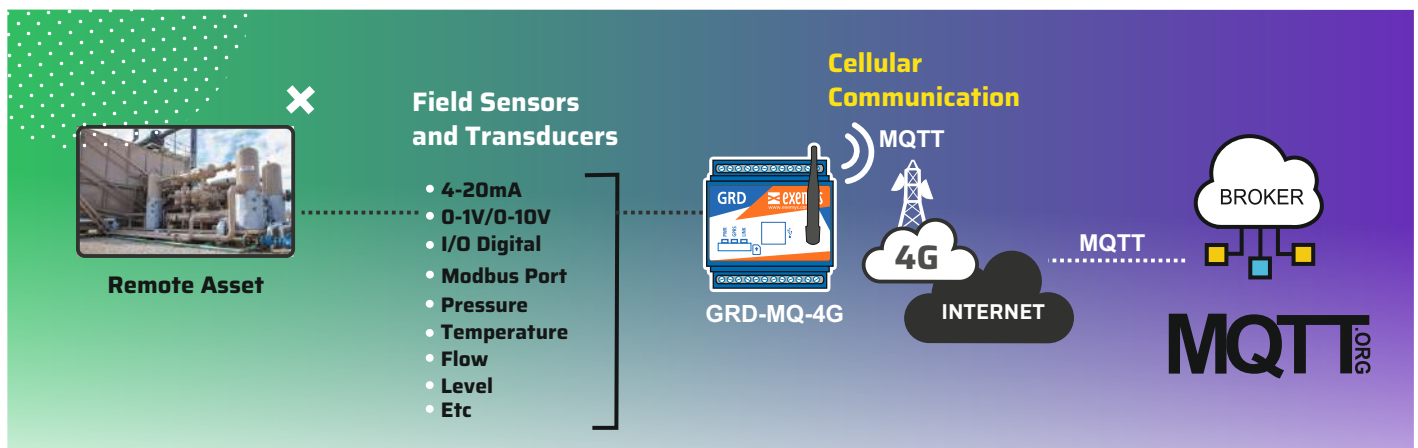
GRD-MQ



GRD-MQ

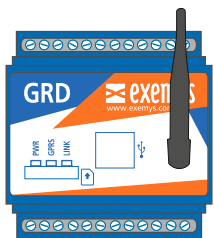
The **GRD-MQ-4G** product family provides a comprehensive solution for Industrial Telemetry, taking advantage of the **MQTT protocol**, highly recognized in the context of Industry 4.0

- Works like a conventional MQTT node, to connect with a Broker
- Establishes a direct connection with the MQTT Broker over the 4G network
- Allows remote configuration from the Broker.
- Supports TLS 1.2 encryption



GENERAL FEATURES

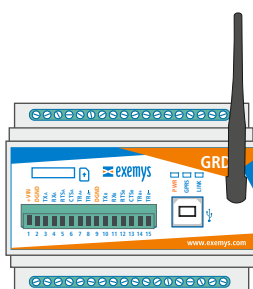
- MQTT Client via Broker
- Modbus Slave Protocol for I/O access
- Programming logic through Scripts
- Alarms and Control by SMS messages
- Online and Offline Event Registration
- Remote control of outputs via subscription.
- Firmware update over the air.
- Remote Serial Port Mode via MQTT



GRD-1620-MQ
GRD-3625-MQ

TECHNICAL FEATURES

- 4G Cellular Communication
- 4-20mA and 0-10V inputs
- Digital Inputs and Outputs
- Pulse Count Inputs
- RS232/485 Serial Ports



GRD-3534-MQ

PROGRAMMABLE WITH SCRIPTS

Program Special Functions

- Mathematical Operations
- Logical Operations
- Timing Operations
- Reading of Internal Inputs
- Turning Digital Outputs On and Off
- Serial Port Data Interpretation
- MQTT Data Publishing/Receiving



MQTT Industrial Telemetry with Ethernet or Wi-Fi communication

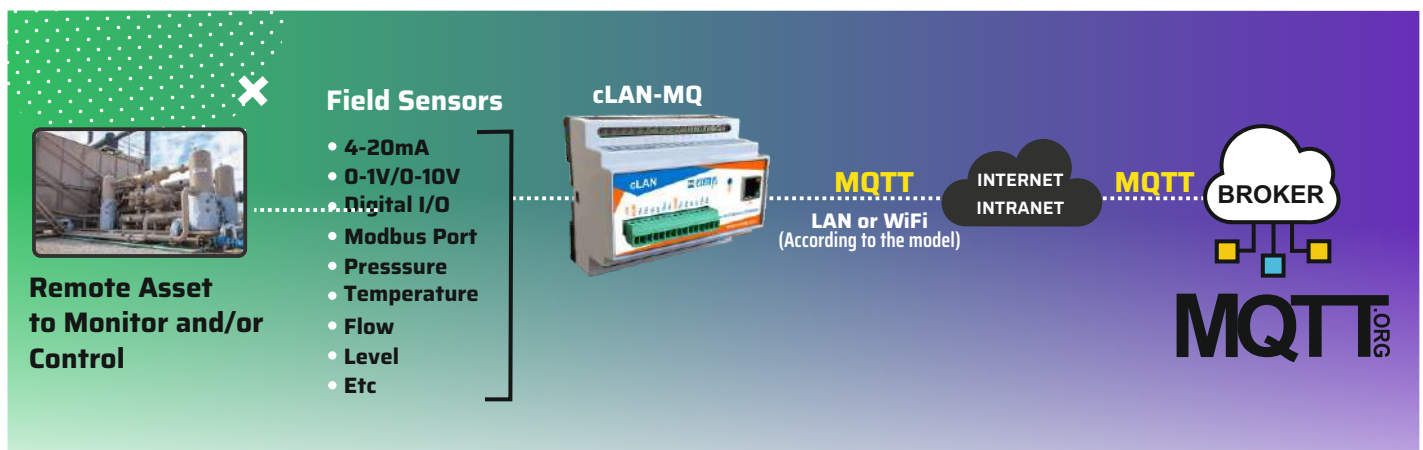
cLAN-MQ



cLAN-MQ

The **cLAN-MQ** product family provides a comprehensive solution for Industrial Telemetry, leveraging the MQTT protocol, which is highly recognized in the context of Industry 4.0.

- Functions as a conventional MQTT node for connecting to a Broker.
- Establishes a direct connection with the MQTT Broker over the network.
- Allows for remote configuration from the Broker.
- Supports TLS 1.2 encryption.



GENERAL FEATURES

- MQTT Client via Broker
- Modbus Slave Protocol (Serial and TCP)
- Programming logic via scripts
- Online and Offline Event Logging
- Remote control of outputs via subscription
- Remote Serial Port Mode via MQTT
- User-Programmable Protocol via scripts
- NMEA 0183 protocol
- MetPak (Gill Instruments) protocol

TECHNICAL FEATURES

- LAN or Wi-Fi Communication
- 4-20mA and 0-10V Inputs
- Digital Inputs and Outputs
- Pulse Counting Inputs
- Serial Ports

PROGRAMMABLE WITH SCRIPTS

Program Special Functions

- Mathematical Operations
- Logical Operations
- Timing Operations
- Reading of Internal Inputs
- Turning Digital Outputs On and Off
- Serial Port Data Interpretation
- MQTT Data Publishing/Receiving



IIoT INDUSTRIAL TELEMETRY DEVICES

IIoT Industrial Telemetry System with 2.4GHz Radio communication

wRemote



wRemote

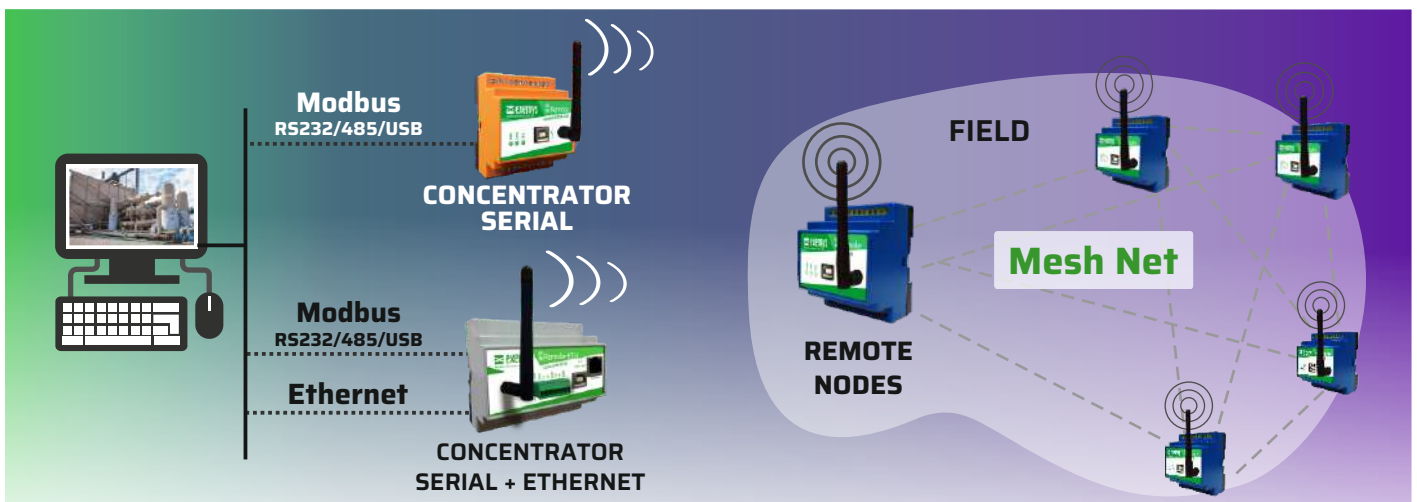
The **wRemote** device family is an innovative solution in Wireless Telemetry, powered by Mesh network technology. This system is specifically designed for implementation in industrial environments or open areas, enabling reliable collection of remote and dispersed data.

The benefits of wRemote include:

- **Wireless Communication:** Eliminates the need for and costs associated with wiring.
- **Mesh Networks / Multiple Remote Nodes:** Provides broad and flexible coverage within the same area.

- **Reduced Installation Cost per Point:** Minimizes the initial investment required for installation.
- **Mesh Network Technology:** Ensures redundancy and greater network range.
- **Direct Connection of Transducers:** Facilitates the integration and operation of sensors and other measurement devices.

This solution is ideal for companies seeking to optimize their monitoring and control infrastructure without compromising the efficiency or security of data collection. The system consists of a Hub and Remote Nodes.



GENERAL FEATURES

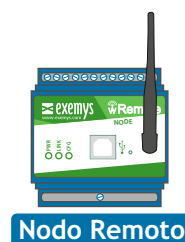
- **IEEE 802.15.4 Communication at 2.4GHz**
- **Mesh Network between Devices**
- **Suitable for Industrial Environments**

Hub / Concentrator

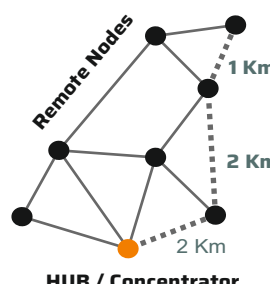
- RS232/485 Port for Modbus Slaves
- USB Port for Modbus and Configuration
- Ethernet Port for Modbus TCP and Configuration

Remote Nodes

- Digital Inputs and Outputs
- Analog Inputs and Outputs (0-10V and 4-20mA)
- RS232/485 Serial Port for Modbus Slaves



- Digital Inputs and Outputs
- Analog Inputs: 0-10V or 4-20mA
- Analog Outputs: 0-10V or 4-20mA
- Serial Port: RS232/485 (Modbus)



Advantages of Mesh Networks

- Automatic Link Between Nodes
- Data Travels Through Multiple Paths
- Extended Range Between Nodes
- Node Failure Tolerance: Another Node Takes Over

Remote Serial Ports with 2.4GHz Radio communication

wSerial



wSerial is an innovative concept in the field of Serial Radios that integrates Mesh Network technology. This not only enables point-to-point communications but also facilitates multiple connections between various remote nodes within the same area. The system is specifically designed to function as a comprehensive network of serial ports, making it ideal for industrial installations where reliable data collection from remote and dispersed devices is critical.

Key benefits of wSerial include:

Cost Reduction: Avoids expenses associated with traditional wiring and offers a low installation cost per point.

Connection Flexibility: Supports multiple types of serial ports, including RS232, RS485, and USB, along with an Ethernet port available exclusively on the hub model.

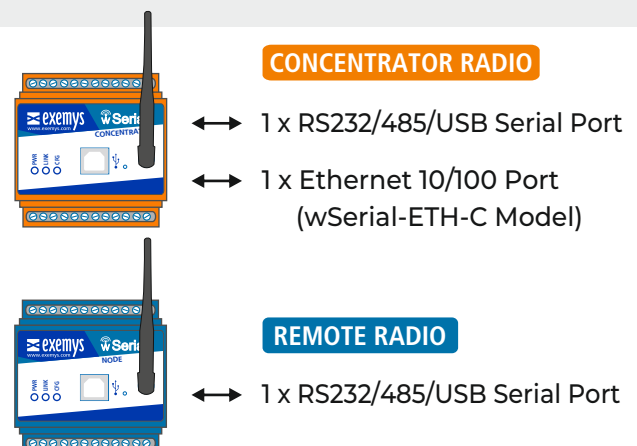
Enhanced Connectivity: With redundancy technology, the system ensures improved range and a more robust and reliable connection, optimizing device management and monitoring.

wSerial represents an efficient and advanced solution for communication infrastructure in industrial environments, significantly enhancing data collection and management.



GENERAL FEATURES

- **Wireless Transparent Serial Channel**
- **Suitable for Industrial Environments**
- **IEEE 802.15.4 Communication at 2.4GHz**
- **Mesh Network Between Devices**
- **Serial Port RS232, RS485, or USB**
- **Ethernet 10/100 Port (wSerial-ETH-C model)**



Wireless Tunnels - I/O and Serial Port with 2.4GHz Radio Communication

wTunnel



wTunnel is an innovative product that uses ZigBee radio technology to reflect the inputs of one device as outputs on another wirelessly. This system also enables the replication of an RS232/485 or USB serial port, providing a versatile solution for data transmission.

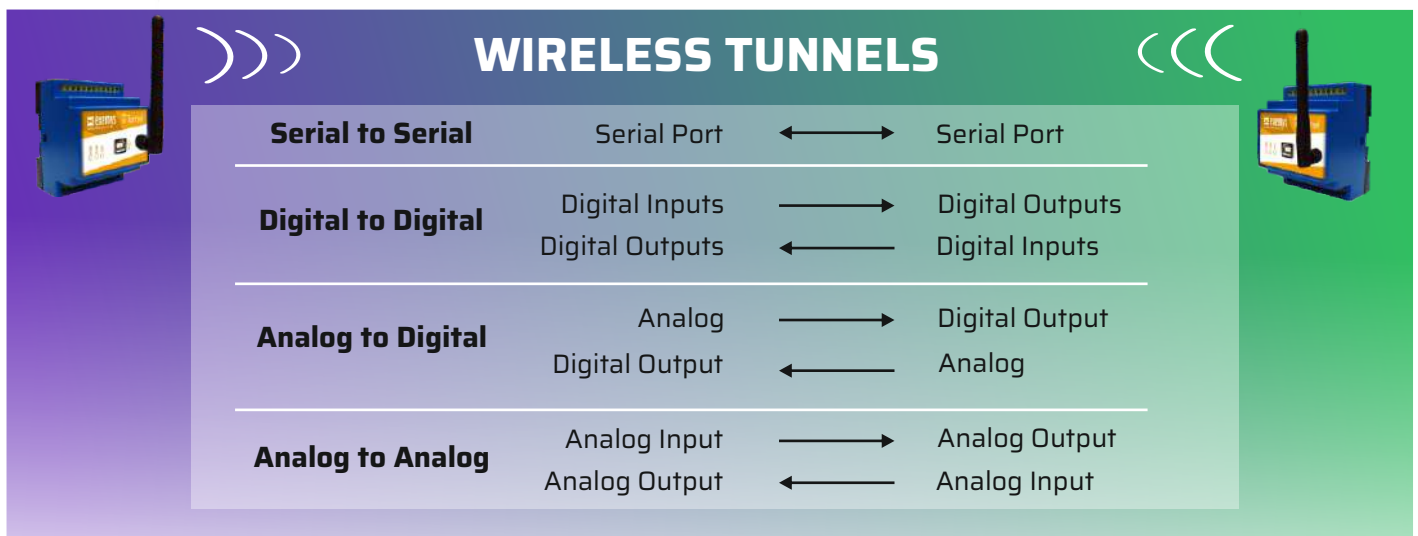
Designed to function as a true point-to-point tunnel, wTunnel is ideal for transmitting field conditions and values reliably and cost-effectively. The key benefits of this system include:

Advanced Wireless Connectivity: Leverages the robustness of ZigBee technology to ensure stable and secure connections.

Operational Cost Reduction: Minimizes the need for physical infrastructure, such as wiring, significantly reducing installation and maintenance costs.

Reliability and Low Cost: Designed to provide reliable data transmission at a reduced cost, improving operational efficiency without compromising quality.

wTunnel stands out as an effective solution for real-time data automation and management, facilitating the integration and control of remote systems.



GENERAL FEATURES

- IEEE 802.15.4 Communication at 2.4GHz
- Transparent Serial Tunnel RS232, RS485, or USB
- 2 Digital Inputs
- 2 Digital Outputs
- 2 Analog Inputs with Digital Alarm Output
- 2 Analog Outputs
- Suitable for Industrial Environments



Device for Telemetry in LoRaWAN Networks

LoRaWAN®

wRemote-LoRa



wRemote-LoRa is an advanced wireless telemetry device that uses LoRaWAN technology. This system is specifically designed for use in industrial facilities or open field environments, where reliable collection of remote and dispersed data is essential.

Key benefits of wRemote-LoRa-BP

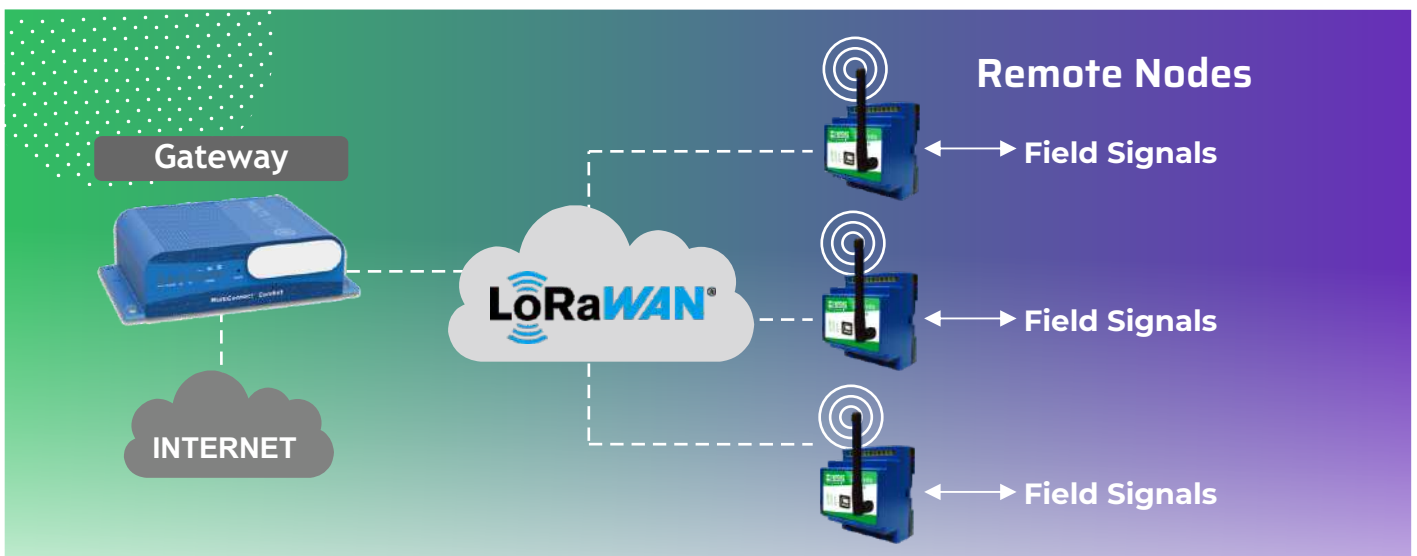
- **Adaptable to industrial environments:** Rugged and built to withstand the most demanding conditions.
- **Efficient communication:** Uses LoRaWAN technology for secure, long-range data transmission.

- **Versatile Inputs and Outputs:** Equipped with digital inputs and outputs, as well as analog inputs of 0-10V and 4-20mA, making it ideal for a wide range of measurement applications.

- **Advanced Connectivity:** Includes an RS232/485 serial port compatible with MODBUS, enabling easy integration with existing systems.

- **Easy Configuration:** Dedicated USB port for fast and simple setup.

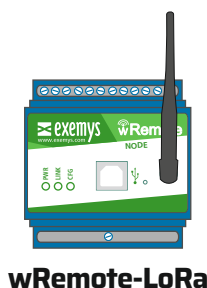
This device not only enhances operational efficiency but also ensures accurate and reliable data collection—crucial for informed decision-making in industrial environments.



GENERAL FEATURES

- Suitable for Industrial Environments
- LoRaWAN Communication
- Digital Inputs and Outputs
- Analog Inputs (0-10V and 4-20mA)
- USB Port for Configuration
- +24Vdc Output for Sensors

Remote Node



Field Signals

- ↔ Digital Inputs/Outputs
- ← 0-10V or 4-20mA Inputs
- ↔ USB for Configuration
- RS232/485 Modbus Port

Device for Telemetry in LoRaWAN Networks

LoRaWAN®

wRemote-
LoRa-BP



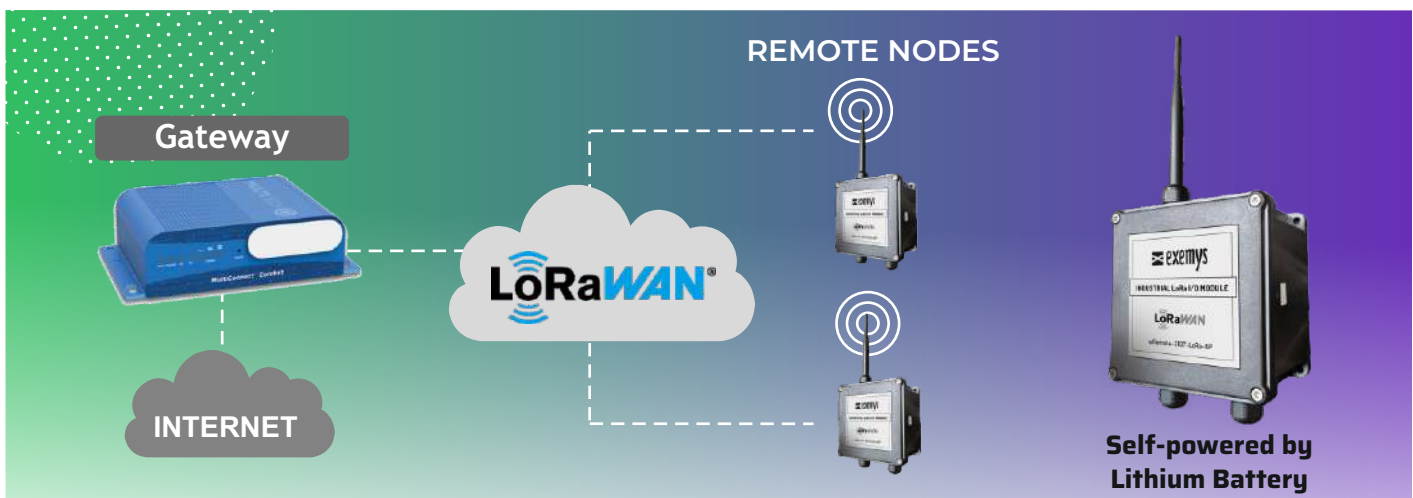
wRemote-LoRa-BP is an advanced self-powered wireless telemetry device that uses LoRaWAN technology. This system is specifically designed for use in industrial facilities or open field environments, where reliable collection of remote and dispersed data is essential.

Key benefits of wRemote-LoRa-BP

- **Self-powered by Lithium Battery**
- **Adaptable to industrial environments:** Rugged and built to withstand the most demanding conditions.
- **Efficient communication:** Uses LoRaWAN technology for secure, long-range data transmission.

- **Versatile Inputs and Outputs:** Equipped with digital inputs and outputs, as well as analog inputs of 0-10V and 4-20mA, making it ideal for a wide range of measurement applications.
- **Easy Configuration:** Dedicated USB port for fast and simple setup.

This device not only enhances operational efficiency but also ensures accurate and reliable data collection—crucial for informed decision-making in industrial environments.



GENERAL FEATURES

- Self-powered by Lithium-Ion Battery
- Suitable for Industrial Environments
- LoRaWAN Communication
- Digital Inputs
- Analog Inputs (0-10V and 4-20mA)
- USB Port for Configuration
- +24Vdc Output for Sensors

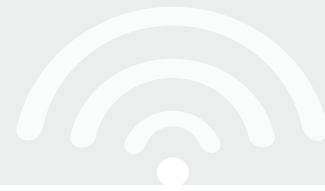
Remote Node



Field Signals

- ← Digital Inputs
- ← 0-10V or 4-20mA Inputs
- ↔ USB for Configuration
- +24Vdc Output for Sensors

Exemys Web Server for Telemetry Applications

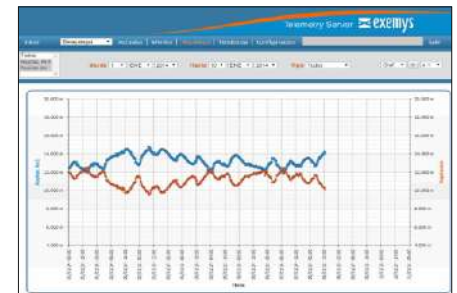


What is the Exemys Web Server?

The Exemys web server for telemetry applications is a PC-based application that provides a highly efficient service, allowing quick and accessible visualization of information from a variety of remote devices, including the GRD and cLAN, along with other connected devices. This system enhances the visualization, graphing, and logging of data from scattered sites and devices, using intuitive graphical tools that simplify and optimize information management.

Where is the information displayed?

The interface, which is fully customizable by the user, facilitates data interpretation and management through a variety of graphical tools such as gauges, progress bars, and indicators. This enables a clear and effective presentation of information on a web page tailored to the user's specific needs.



Advantages

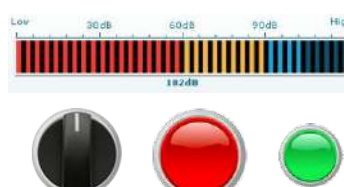
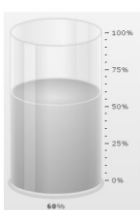
Immediate implementation: The platform enables rapid deployment of telemetry applications, eliminating delays in integration and configuration.

Cost reduction: By using this service, there is no need to invest in dedicated servers, resulting in significant savings in infrastructure and maintenance costs.

Simplified access: All field devices are accessible through a single customizable web page, allowing centralized and direct management of information from anywhere.

Assured reliability: The service is hosted in a data center operating 24/7/365, ensuring high availability and constant data security.

Graphic Tools examples



MODBUS CONNECTIVITY

Protocol Converter
Multiplexer
Master Exchanger



EtherNet/IP to Modbus Serial Converter

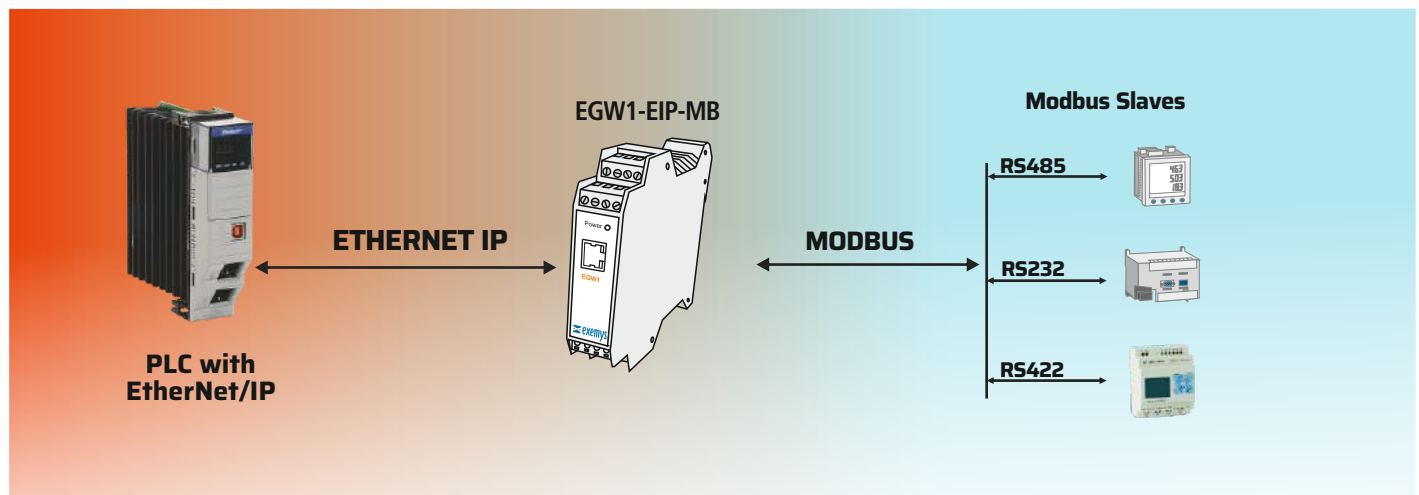


EGW1-EIP-MB

EtherNet/IP (Ethernet Industrial Protocol) is an industrial network protocol designed for real-time communication between devices in automation and industrial control environments. It is based on the widely used Ethernet standard, but optimized for industrial applications.

The **EGW1-EIP-MB** is a converter that enables communication between EtherNet/IP and Modbus Serial. This device allows an EtherNet/IP master to read from and write to Modbus serial slave registers.

As a Modbus serial master, the EGW1-EIP-MB collects data from slaves connected via its RS232/RS485/RS422 port and stores the acquired values in a data map with a capacity of up to 1000 words. At the same time, it operates as an EtherNet/IP slave, responding to queries from the EtherNet/IP master regarding this data map.



GENERAL FEATURES

- EtherNet/IP Protocol in Slave Mode
 - MicroLogix Class 3 Read/Write: 500CPU and PLC5
 - CompactLogix Class 3 Read/Write: PLC3 Typed, PLC5 Typed, and SLC Typed
 - CompactLogix Class 1: 200 read-only words
- Modbus Serial RTU/ASCII Protocol in Master Mode
- 1000-word Modbus Data Map
- Configuration via HTTP Server and RS232 Serial Console
- Device Firmware Update via Web Page

TECHNICAL FEATURES

- 1 Ethernet Port 10/100 Base T, with RJ45 connector
- 1 Serial Port RS232/485/422 with Removable Industrial Terminal Blocks
- Power Supply: +10 to +30 VDC
- Industrial DIN Rail Enclosure

Modbus Serial to TCP Converter with Digital I/O



The **EGW1-IA3-MB** module is a **Modbus Serial to Modbus TCP** converter designed to integrate any industrial equipment with **MODBUS RS232/485/422** communication into **Ethernet TCP/IP** networks.

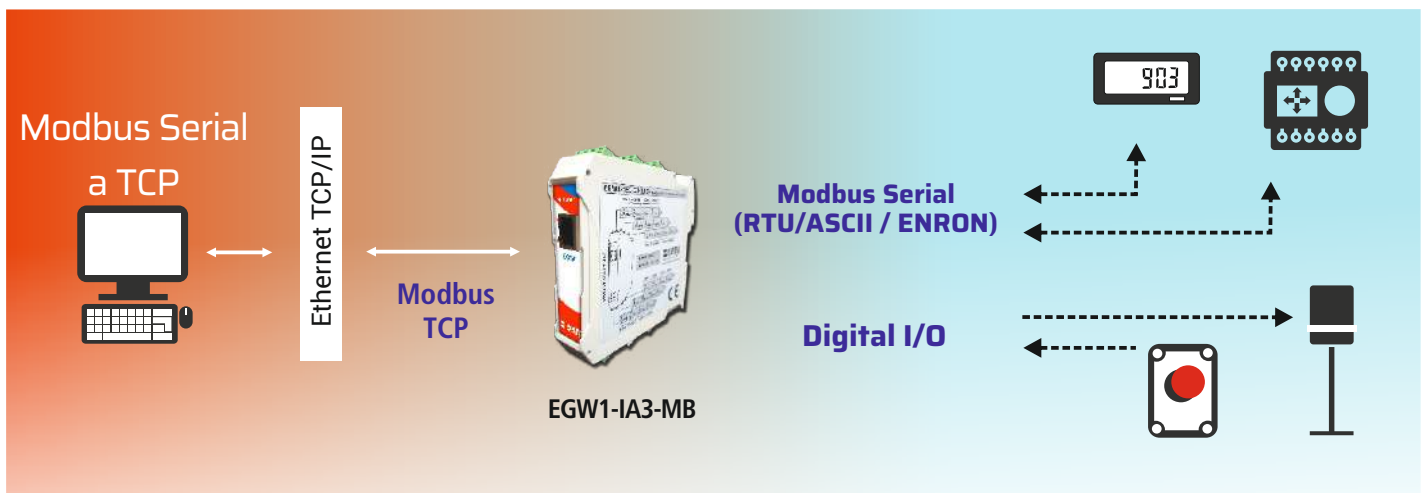
A standout feature of this device is its built-in **Digital inputs and outputs**, setting it apart from similar devices. This feature provides a complete and self-contained solution for control applications, eliminating the need for additional modules and simplifying the system infrastructure.

Protocols

Modbus RTU/ASCII

Modbus TCP

Modbus ENRON



GENERAL FEATURES

- Supports Modbus TCP, Modbus Serial RTU/ASCII, and ENRON protocols
- Up to 16 simultaneous Modbus TCP connections
- RS232/485/422 port selectable via software, up to 115 Kbps
- 10 Digital I/Os controllable via Modbus
- Installation and configuration via Web Browser, Telnet, or Serial Port
- Software for discovering Exemys devices on the network
- Industrial-Grade Design:
 - DIN rail mounting, flame-retardant industrial enclosure
 - Removable industrial terminal blocks
 - Wide power supply range: +10 to +30 Vdc

APPLICATIONS

- PLC and SCADA Systems
- Industrial Automation and Home Automation
- Remote Monitoring Systems
- Access Control and Security Systems
- Energy Network Management
- Water and Waste Management Systems
- Environmental Control
- Smart Lighting Systems
- HVAC Management
- Industrial Process Control
- Refrigeration System Monitoring
- Solar Energy System Management

Modbus Serial to TCP Converter with Digital I/O and 2-Port Switch



**EGW1-2ETH-
IA3-MB**

The **EGW1-IA3-MB-2ETH** module is a Modbus Serial to Modbus TCP converter designed to integrate any industrial equipment with MODBUS RS232/485/422 communication into Ethernet TCP/IP networks.

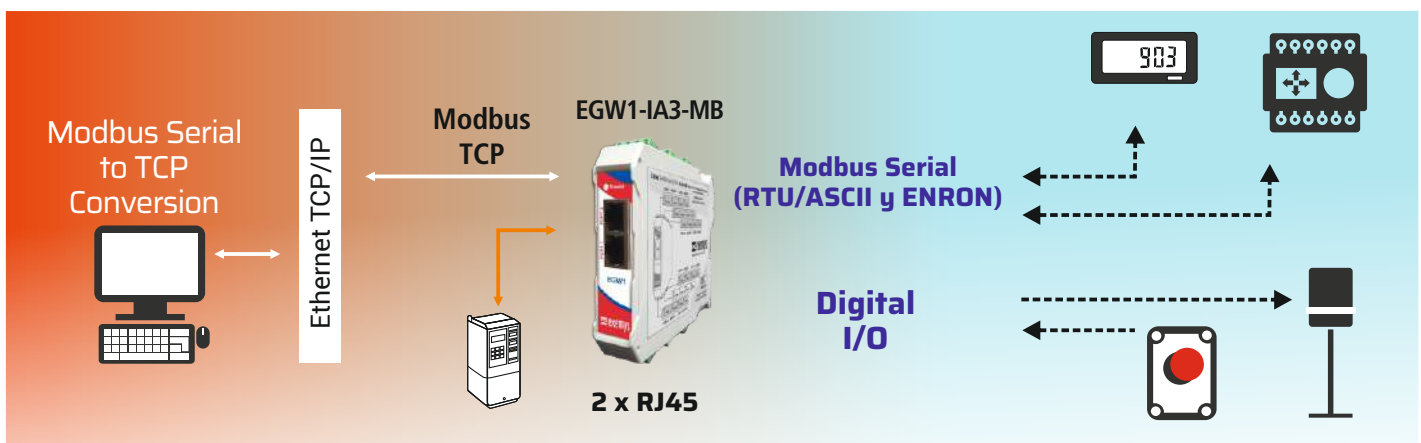
A key feature of this device is the inclusion of a **built-in 2-Port Ethernet Switch** and digital inputs/outputs, setting it apart from similar devices. This feature provides a complete and self-contained solution for control applications, eliminating the need for additional modules and simplifying system infrastructure.

Protocols

Modbus RTU/ASCII

Modbus TCP

Modbus ENRON



GENERAL FEATURES

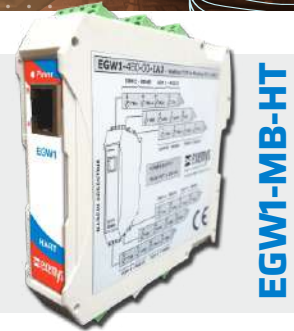
- **Built-in 2-Port Ethernet Switch**
- Supports Modbus TCP, Modbus Serial RTU/ASCII, and ENRON protocols
- Up to 16 simultaneous Modbus TCP connections
- RS232/485/422 port selectable via software, up to 115 Kbps
- 10 Digital I/Os controllable via Modbus
- Installation and configuration via Web Browser, Telnet, or Serial Port
- Software for discovering Exemys devices on the network
- Industrial-Grade Design:
 - DIN rail mounting, flame-retardant industrial enclosure
 - Removable industrial terminal blocks
 - Wide power supply range: +10 to +30 Vdc

APPLICATIONS

- PLC and SCADA Systems
- Industrial Automation and Home Automation
- Remote Monitoring Systems
- Access Control and Security Systems
- Energy Network Management
- Water and Waste Management Systems
- Environmental Control
- Smart Lighting Systems
- HVAC Management
- Industrial Process Control
- Refrigeration System Monitoring
- Solar Energy System Management

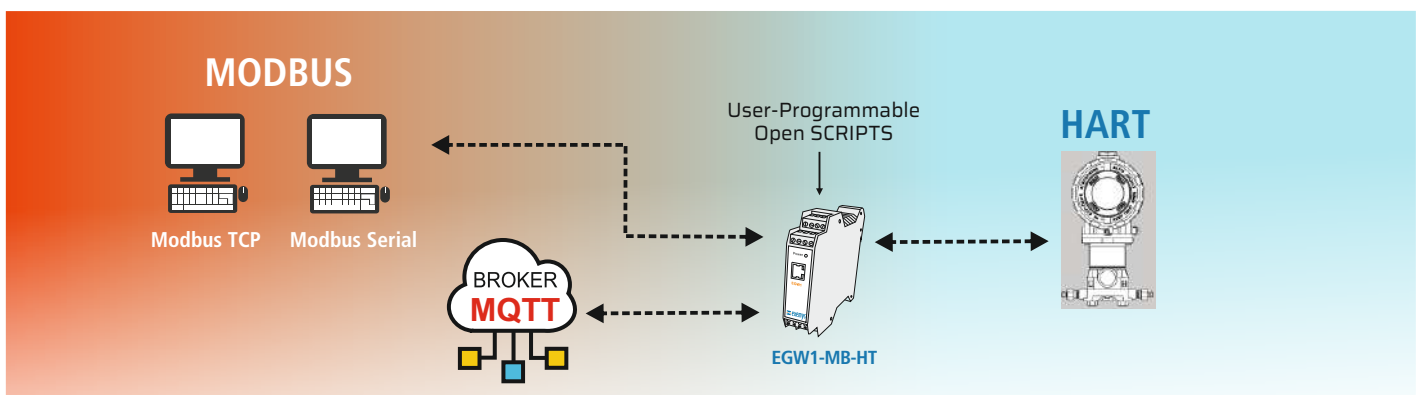
HART to Modbus/MQTT Converter

Modbus TCP, RTU/ASCII



The **EGW1-IA3-HT-MB** module is a device used to connect any industrial equipment with HART communication to one or more Modbus TCP masters, Modbus Serial (RTU/ASCII) masters, or even to an MQTT Broker.

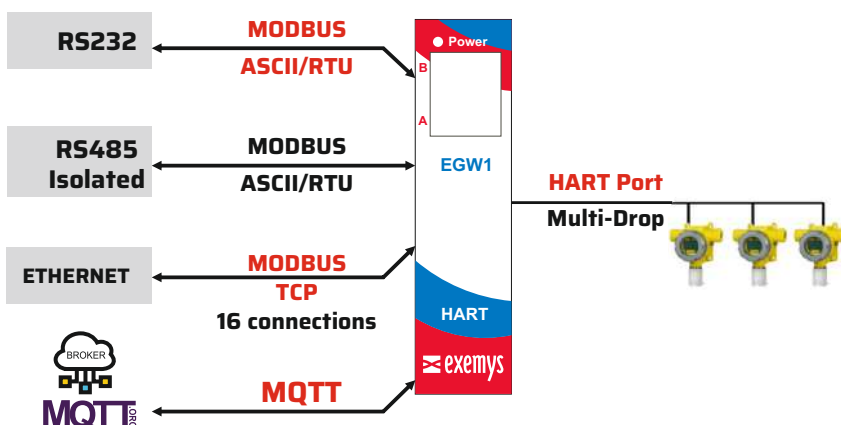
The **EGW1-IA3-MB** module is a **HART protocol converter to Modbus TCP, RTU/ASCII, and MQTT.**



GENERAL FEATURES

- Supports Modbus TCP, RTU/ASCII, and MQTT Protocols
- 1 HART Port
- 1 RS232 Serial Port (Modbus Serial Slave)
- 1 Opto-isolated RS485 Serial Port (Modbus Serial Slave)
- 1 Ethernet TCP/IP Port for Modbus TCP
- Data Publishing to an MQTT Broker
- User-Programmable Functions via Open SCRIPTS
- Up to 16 Simultaneous Modbus TCP Connections
- Installation and Configuration via Web Browser
- DIN Rail Mounting, Flame-Retardant Industrial Enclosure
- Wide Power Supply Range: +10 to +30 Vdc

DIAGRAM



PROGRAMMABLE WITH SCRIPTS

Program Special Functions

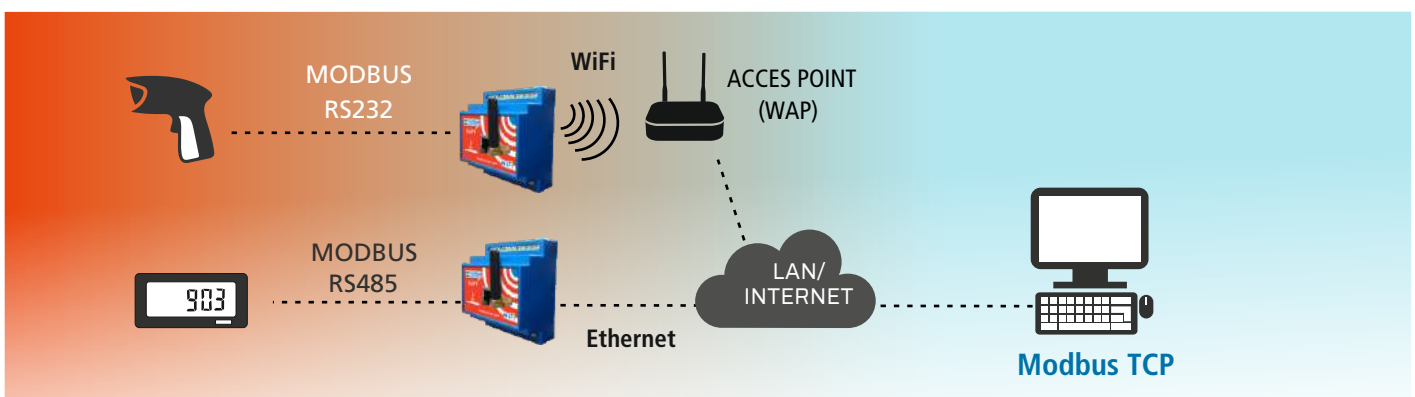
- Mathematical Operations
- Logical Operations
- Timing Operations
- Reading of Internal Inputs
- Turning Digital Outputs On and Off
- Serial Port Data Interpretation
- MQTT Data Publishing/Receiving

Modbus Serial to TCP Converter with Ethernet / WiFi



EGW1-MB-WIFI

The **EGW1-IA3-MB-WIFI** module is a Modbus Serial to Modbus TCP converter, designed to integrate industrial equipment with MODBUS RS232/485 communication into Ethernet TCP/IP or Wi-Fi networks.



GENERAL FEATURES

- **Modbus Serial to Modbus TCP Converter (Wi-Fi and Ethernet)**
- Supports Modbus TCP, ASCII, and RTU - Master or Slave
- Up to 16 simultaneous Modbus TCP connections
- **Up to 6 Digital I/O**
- Wi-Fi Communication 802.11 b/g
- RS-232 and RS-485 Serial Ports
- Ethernet Port for Configuration and Operation
- Security with WEP, WPA, and WPA2 Encryption
- Web-Based Usage Statistics
- Power Supply: +10 to +30VDC
- DIN Rail Industrial Mounting

MODBUS SERIAL

COM A
RS232/485

EGW1-WiFi



ETHERNET
10/100Mbps



MODBUS TCP

Modbus Port Multiplexer

- + ASCII / RTU Converter
- + Master-to-Master Modbus Exchange



SGW1-IA3-MMP

The SGW1-IA3-MMP is a multifunctional device designed to facilitate multiplexing, conversion, and data exchange between Modbus Serial devices. It supports the following functions:

- 1) Modbus Port Multiplexing (Masters or Slaves)
- 2) Conversion of Modbus ASCII to Modbus RTU, with different baud rates on RS232 or RS485 ports
- 3) Register Exchange Between Modbus Masters via a shared memory buffer

Multiplexing Example 2 Master to 1 Slave



GENERAL FEATURES

- Equipped with 4 RS232 or RS485 Serial Ports with Modbus Protocol
- Supports up to 3 Master Ports and up to 3 Slave Ports
- Transparent Operation - No Register Mapping Required
- Easy Configuration via USB
- DIN Rail Mounting, Flame-Retardant Industrial Enclosure
- Wide Power Supply Range: +10 to +30 VDC

Functionalities

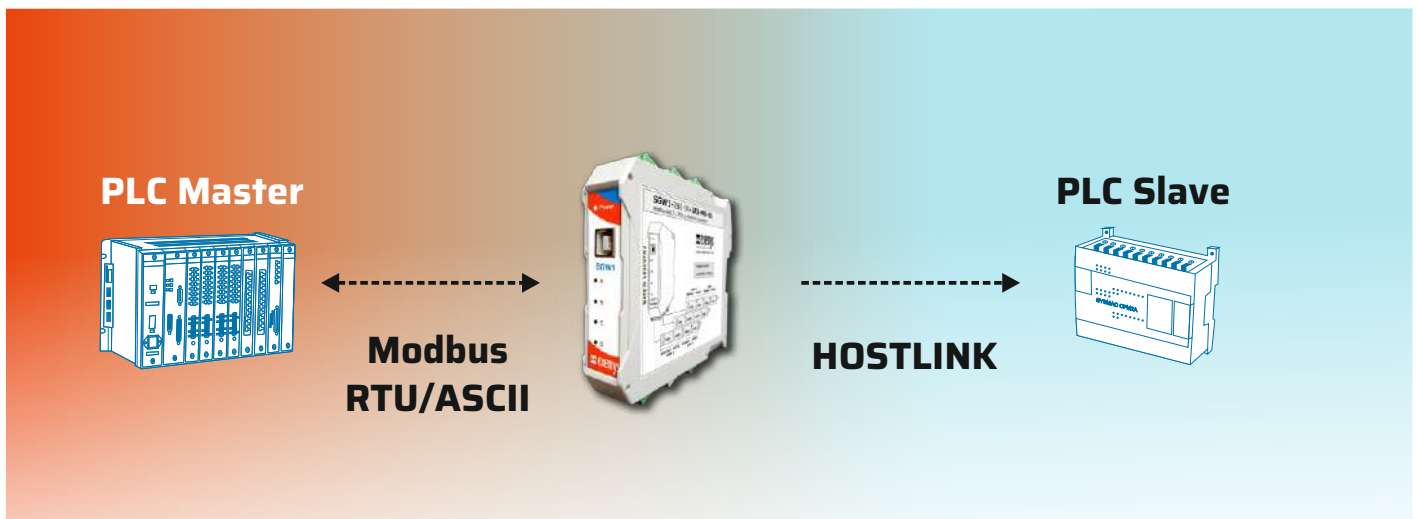
- Modbus Port Multiplexer
- Modbus ASCII to Modbus RTU Converter (on RS232 or RS485 ports)
- Modbus Master-to-Master Data Exchange

Protocol Converter Modbus to Hostlink



SGW1-MB-HL

The **SGW1-MB-HL** converter allows you to integrate an OMRON® device with HOSTLINK communication protocol into a Modbus RTU/ASCII network in a simple and cost-effective way. The conversion is based on a memory zone mapping table, making the device easy to use.



GENERAL FEATURES

- Two RS232/485 Serial Ports: Modbus RTU/ASCII and Hostlink
- Supports Speeds up to 115,200 Baud
- Easy Serial Port Configuration
- DIN Rail Mounting, Flame-Retardant Industrial Enclosure
- Wide Power Supply Range: +10 to +30 Vdc

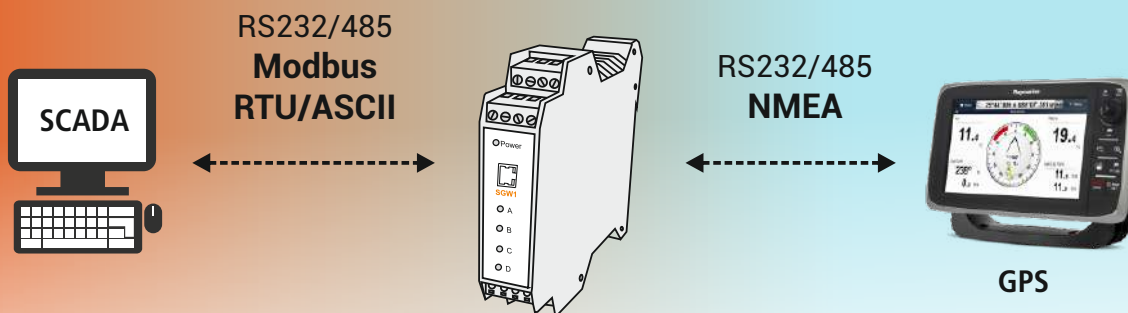
Protocol Converter NMEA to Modbus



SGW1-MB-NM

The SGW1-MB-NM simplifies data mapping from devices using the NMEA 0183 protocol to Modbus RTU/ASCII registers.

This device offers an effective solution for integrating and managing critical information in a wide range of applications, such as GPS systems, weather stations, and industrial marine equipment.



GENERAL FEATURES

- 1 NMEA Serial Port and 1 Modbus RTU/ASCII Serial Port
- 2 RS232/485 Ports, up to 115,200 bps
- Easy Configuration via USB Port
- Simple Installation and Setup through Serial Console
- Wide Power Supply Range: +10 to +30V DC
- Flame-Retardant Industrial Enclosure
- Removable Industrial Terminal Blocks

SERIAL SERVERS

Serial to Ethernet
Converters

Serial Port
Mixer

Serial port
Redirector



Serial to Ethernet Converter Industrial Model - DIN Rail Mounting



SSE232-IA3

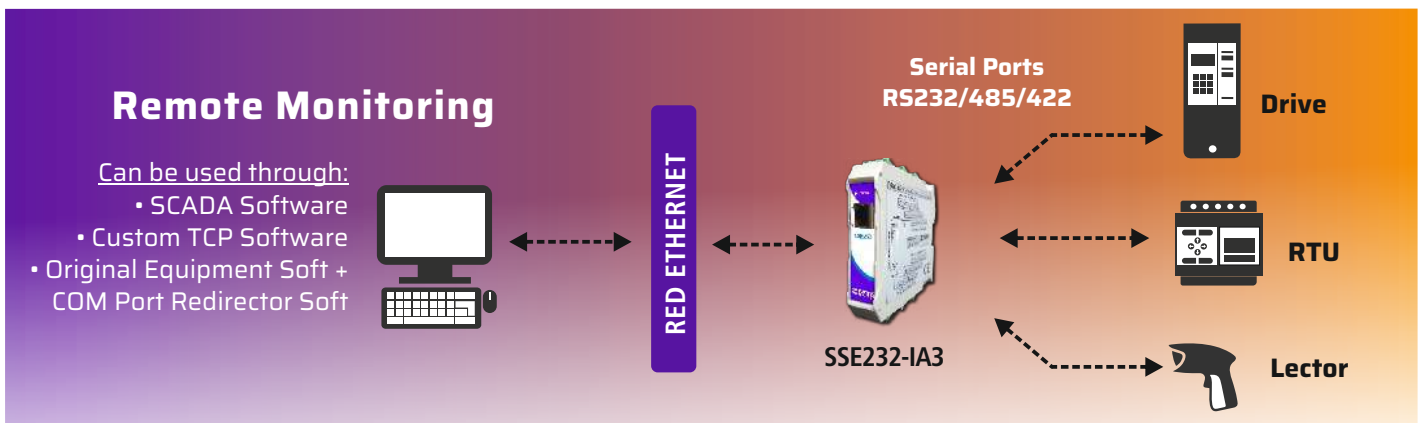
The **SSE232-IA3** is a device designed to facilitate the integration of equipment with RS232/485 communication ports into Ethernet TCP/IP networks.

This product is ideal for industrial environments where connectivity and reliability are essential.

In addition to converting serial signals to Ethernet, the SSE232-IA3 stands out by offering **built-in Digital Inputs and Outputs**, allowing for direct management and control of external devices without the need for additional modules, making it especially valuable in applications where space or budget for extra equipment is limited.

The converter can be used through the following methods:

- SCADA Software
- Custom TCP Software
- The Original Software of the device to be connected plus a COM port Redirector



GENERAL FEATURES

- Automatic recovery in case of communication loss
- COM Port Redirection Software
- Ethernet and SNMP control of digital inputs and outputs
- Easy web configuration, password-protected
- Software for discovering Exemys devices on the network
- DIN rail mounting. Fireproof industrial enclosure
- Wide power supply range from +10 to 30Vdc
- Removable industrial terminal blocks

SERIAL SERVER

- Converts Serial Ports to Ethernet TCP/IP
- Up to 4 RS232 / 485 / 422 Ports
- Transparent Serial Port Tunneling
- I/O Tunneling via Ethernet
- Digital inputs and outputs, controlled by Ethernet
- Multi-drop over Ethernet: One server, multiple clients

SERIAL SERVERS

Serial to Ethernet Converter Industrial Model - DIN Rail Mounting With 2 Port Ethernet Switch



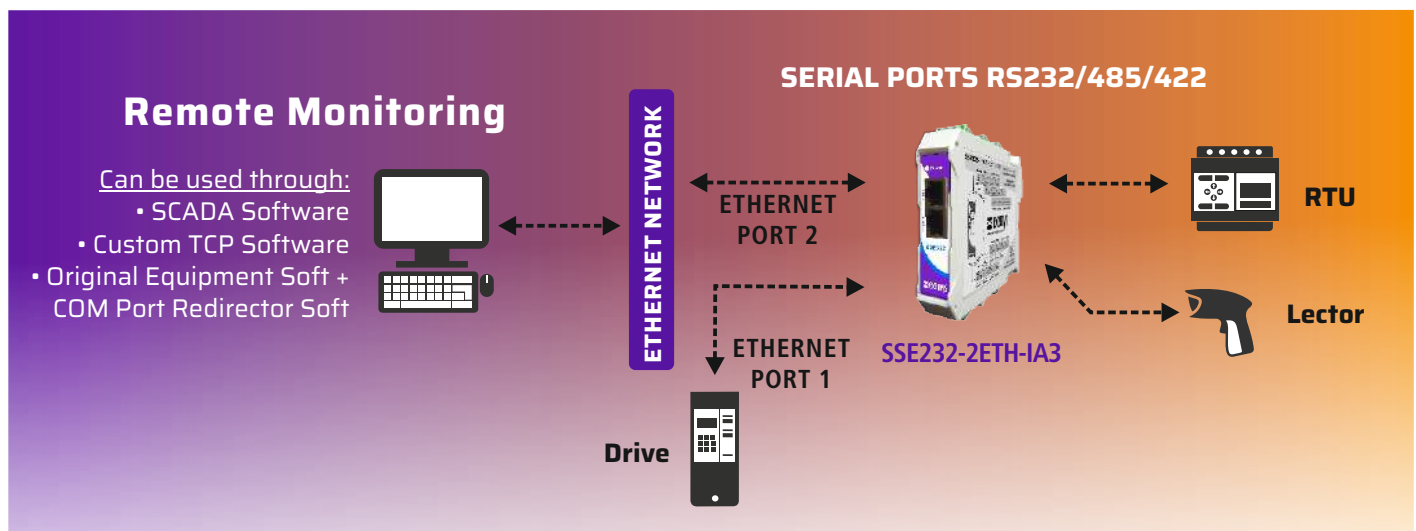
**SSE232-
2ETH-IA3**

The Industrial **SSE232-2ETH-IA3** is a device designed to facilitate the integration of equipment with RS232/485 communication ports into Ethernet TCP/IP networks. This product is ideal for industrial environments where connectivity and reliability are essential.

It features an **integrated 2-port switch** within the device itself, ensuring easy and quick integration into panels.

The converter can be used through the following methods:

- SCADA Software
- Custom TCP Software
- The Original Software of the equipment to be connected plus a COM port redirector



GENERAL FEATURES

- Automatic recovery in case of communication loss
- COM port redirection software
- Ethernet and SNMP control of digital inputs and outputs
- Easy web configuration, password-protected
- Software for discovering Exemys devices on the network
- DIN rail mounting. Fireproof industrial enclosure
- Wide power supply range from +10 to 30Vdc
- Removable industrial terminal blocks

SERIAL SERVER

- **Converts Serial Ports to Ethernet TCP/IP**
- **Features a 2-port RJ45 Ethernet switch**
- Supports up to 4 RS232 / 485 / 422 Ports
- Transparent serial port tunneling
- Multi-drop over Ethernet: One server, multiple clients

Serial to Ethernet Converter Serial Server - Low End model



SSE232-LE

The SSE232-LE is a device designed to facilitate the integration of equipment with RS232/485 communication ports into Ethernet TCP/IP networks in a completely transparent manner. This product is ideal for environments where connectivity and reliability are essential.

The converter can be used through the following methods:

- A SCADA Software
- A Custom TCP Software
- The Original Software of the device to be connected + a COM Port Redirector

Remote Monitoring

Can be used through:

- SCADA Software
- Custom TCP Software
- Original Equipment Soft + COM Port Redirector Soft



ETHERNET NETWORK

**ETHERNET
10/100 BaseT**



RS232/485



RTU

GENERAL FEATURES

- 1 Ethernet 10/100 Base-T Port
- 1 Serial Port (RS232 or RS485)
- Suitable for DIN rail or flat surface mounting
- Easy password-protected configuration via Web browser
- Web-based monitoring and operational statistics
- Automatic recovery in case of communication loss
- SNMP trap sending for event notifications
- Wide power supply range: +10 to +30V DC

CONNECTIONS



Serial to Ethernet Converter With Wi-Fi

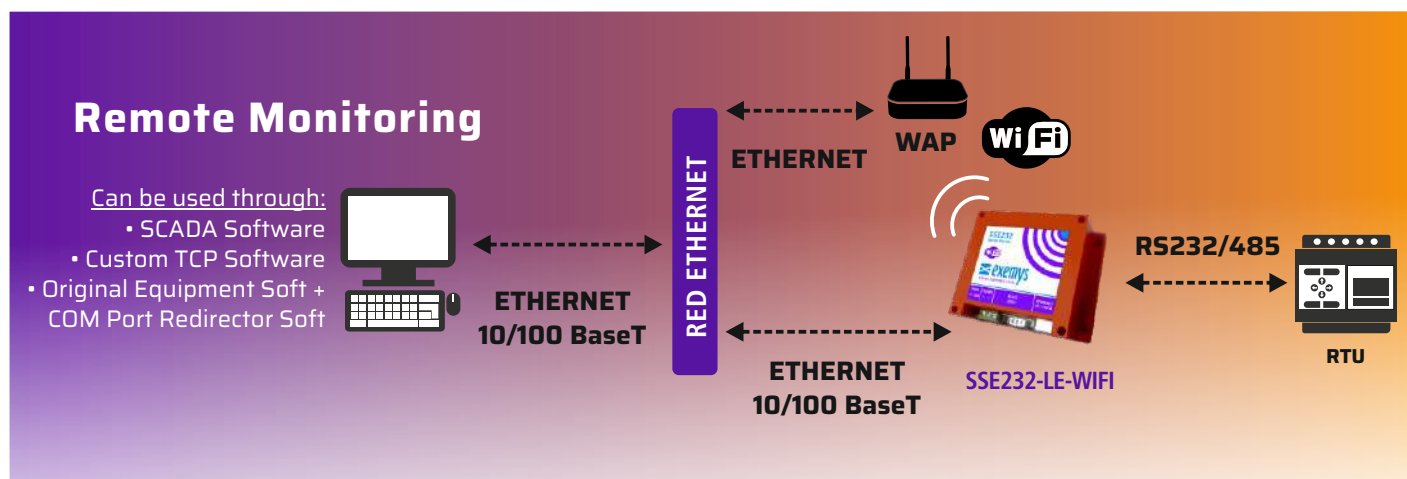


SSE232-LE
WiFi

The **SSE232-LE-WIFI** is a device designed to facilitate the integration of equipment with RS232/485 communication ports into Ethernet TCP/IP and Wi-Fi networks in a completely transparent manner. This product is ideal for environments where connectivity and reliability are essential.

The converter can be used through the following methods:

- A SCADA Software
- A Custom TCP Software
- The Original Software of the device to be connected + a COM Port Redirector



GENERAL FEATURES

- **1 Wi-Fi Port with an internal antenna**
- 1 Ethernet 10/100 Base-T Port
- 1 Serial Port (RS232 or RS485)
- Suitable for DIN rail or flat surface mounting
- Easy password-protected configuration via Web browser
- Web-based monitoring and operational statistics
- Automatic recovery in case of communication loss
- SNMP trap sending for event notifications
- Wide power supply range: +10 to +30V DC

MODES OF USE

- Connection with Serial Port Redirector
- Point-to-Point TCP Tunnel
- Point-to-Point UDP Tunnel
- Point-to-Multipoint UDP Tunnel
- Multipoint UDP Tunnel

Serial to Ethernet / Wi-Fi Converter

Industrial Model

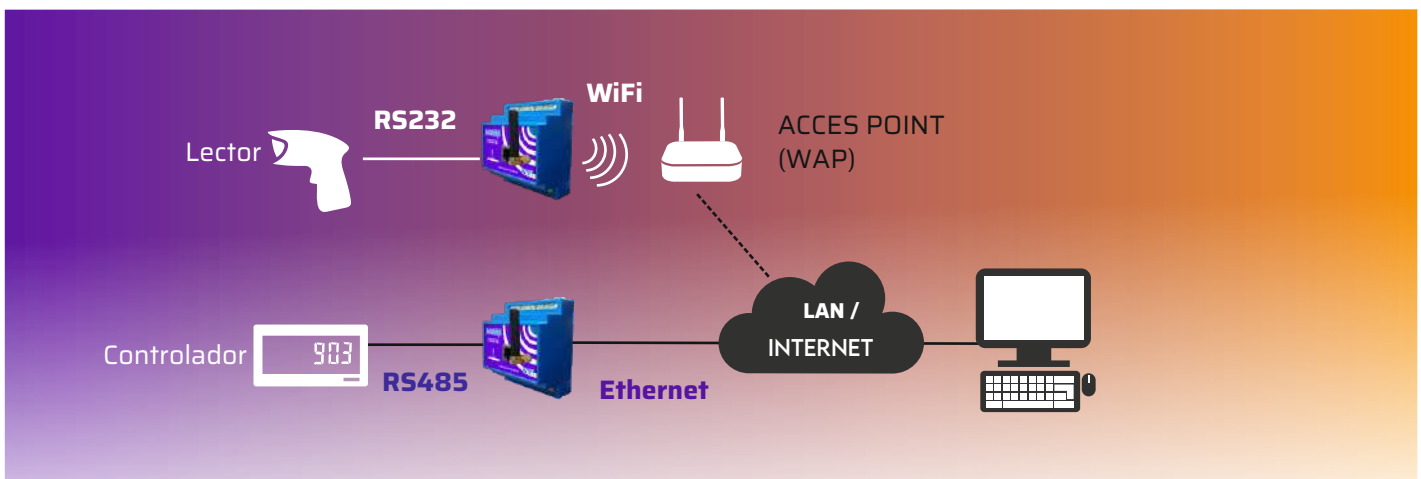


SSE232-RM
WiFi

The **SSE232-RM-WIFI** is a device designed to facilitate the integration of equipment with RS232/485 communication ports into Ethernet TCP/IP and Wi-Fi networks in a fully transparent manner. This product is ideal for environments where connectivity and reliability are essential.

The converter can be used through the following methods:

- A SCADA software
- A custom TCP application
- The original software of the device to be connected + a COM port redirector



GENERAL FEATURES

- 1 Wi-Fi port with external antenna, RP-SMA connector
- 1 Ethernet port 10/100 Base T
- 1 Serial port RS232 or RS485
- Suitable for DIN rail mounting
- Easy password-protected configuration via web browser
- Web-based monitoring and performance statistics
- Automatic recovery in case of communication loss
- SNMP trap notifications for events
- Wide power supply range: +10 to +30 VDC

MODES OF USE

- Connection using Serial Port Redirector
- Point-to-Point TCP Tunnel
- Point-to-Point UDP Tunnel
- Point-to-Multipoint UDP Tunnel
- Multipoint UDP Tunnel

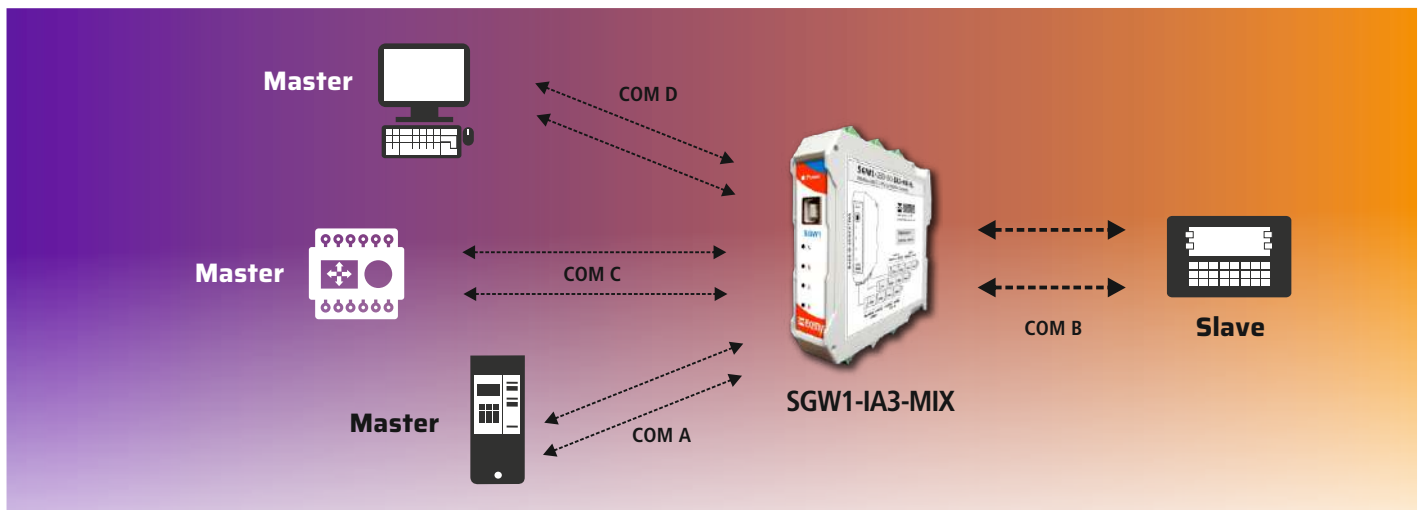
Serial Port Mixer (RS232/485)



**SGW1-IA3
MIX**

The **SGW1-IA3-MIX** is a communication multiplexer designed to operate over RS232/485 serial ports. This device enables the simultaneous connection of up to three querying devices, typically referred to as “Masters,” to a single device intended to be queried, commonly known as the “Slave.”

Each serial port on the SGW1-IA3-MIX is individually configurable, allowing for customization of Baud Rate, Data Bits, Parity, and Stop Bits to meet specific system requirements. The Slave device can not only respond to incoming queries but also transmit data simultaneously to all three Masters. This functionality significantly enhances efficiency in environments where multiple Masters require concurrent access to a single Slave device.



GENERAL FEATURES

- 4 RS232 or RS485 Serial Ports
- Multiplexer Functionality for 3 Masters and 1 Slave (RS232 or RS485)
- Individual Configuration for Each Port
- Dedicated USB Port for Console-Based Configuration
- Firmware Upgrade Capability via USB Port
- Flame-Retardant Industrial Enclosure Designed for DIN Rail Mounting

I/O MODULES

Analog
Acquisitions

Acquisition :
I / O Analog



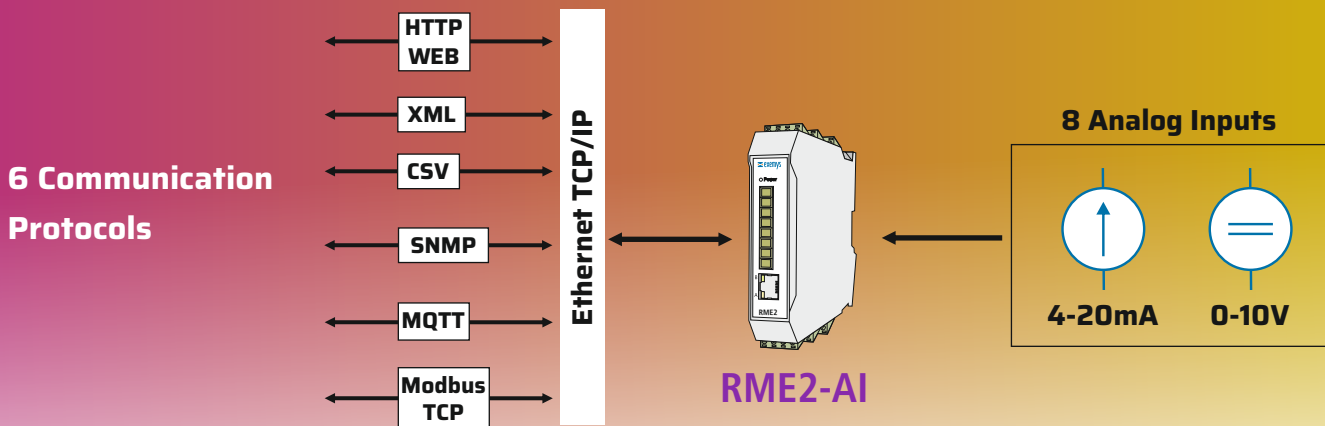
Analog Inputs Module

- 8 Differential Channels of Voltage and Current
- Ethernet Communication (6 protocols)



RME2-AI

With the **RME2-AI**, you can accurately capture analog voltage and current variables (0-10V and 4-20mA). This device enables efficient communication through an Ethernet port, offering the flexibility to choose from **6 different protocols** to suit various system requirements and configurations.



GENERAL FEATURES

8 Analog Inputs

- Differential Inputs
- 4-20mA Current
- 0-10 V Voltage

6 Ethernet Communication Protocols

- Modbus TCP
- HTTP / Página WEB
- CSV
- XML
- **MQTT**
- SNMP versión 1

PROGRAMMABLE with SCRIPTS

(Program Special Functions)

- Mathematical Operations
- Logical Operations
- Timing Operations
- Reading of the Device's Own Inputs
- Switching Digital Outputs On and Off
- Serial Port Data Interpretation
- Data Publishing via WITS Serial

PT100 Inputs Module

8 Differential Channels 2 and 3 wires
With Ethernet Port (6 protocols)

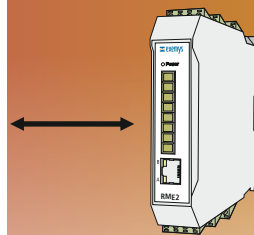
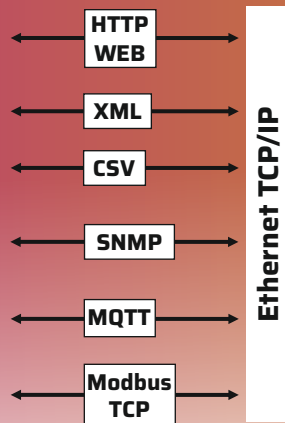


RME2-PT

With the **RME2-PT**, you can accurately capture analog temperature variables from 2-wire or 3-wire PT100 sensors.

This device enables efficient communication via an Ethernet port, offering the flexibility to choose from **6 different protocols** to suit various system requirements and configurations.

**6 Ethernet
Protocols**



RME2-PT

8 Analog Inputs



GENERAL FEATURES

8 PT100 Inputs

- Differential Inputs
- PT100 - 2 or 3 wires

6 Ethernet Protocols

- Modbus TCP
- HTTP / WEB Page
- SNMP version 1
- CSV
- XML
- **MQTT**

PROGRAMMABLE with SCRIPTS

(Program Special Functions)

- Mathematical Operations
- Logical Operations
- Timing Operations
- Reading of the Device's Own Inputs
- Switching Digital Outputs On and Off
- Serial Port Data Interpretation
- Data Publishing via WITS Serial

Thermocouple Inputs Module

8 Differential Channels J, K, T, R, N, E, S
With Ethernet Port (6 protocols)

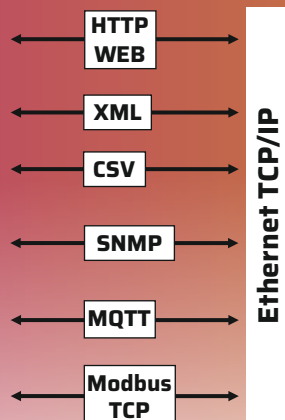


RME2-TC

With the **RME2-TC**, you can accurately capture analog temperature variables from Thermocouple sensors.

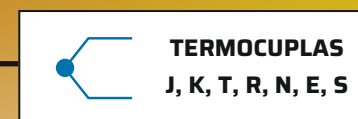
This device enables efficient communication via an Ethernet port, offering the flexibility to choose from **6 different protocols** to adapt to various system requirements and configurations.

6 Ethernet Protocols



RME2-TC

8 Analog Inputs



GENERAL FEATURES

8 Analog Inputs

- Differential Inputs
- 4-20mA Current
- 0-10 V Voltage

6 Ethernet Communication Protocols

- Modbus TCP
- HTTP / Página WEB
- SNMP versión 1
- CSV
- XML
- **MQTT**

PROGRAMMABLE with SCRIPTS

(Program Special Functions)

- Mathematical Operations
- Logical Operations
- Timing Operations
- Reading of the Device's Own Inputs
- Switching Digital Outputs On and Off
- Serial Port Data Interpretation
- Data Publishing via WITS Serial

Analog Inputs Module

- 8 Differential Channels. Voltage and Current
- Serial MODBUS Communication

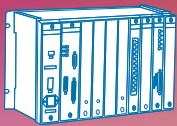


RMS2-AI

Using the **RMS2-AI**, you can accurately acquire analog **voltage and current variables** (0-10V and 4-20mA).

The acquired data is transmitted through a **serial port** using the **Modbus RTU/ASCII communication protocol**.

Master MODBUS

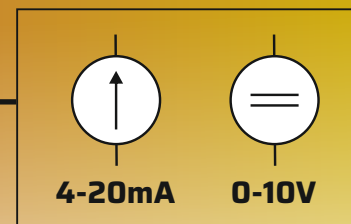


**Modbus RTU/ASCII
RS232 / RS485**

RMS2-AI



8 Inputs Analog



GENERAL FEATURES

- **Modbus RTU/ASCII**
 - Serial Port RS232/485
- **8 Analog Inputs**
 - Differential Channels
 - Current 4-20mA
 - Voltage 0-10 V

APPLICATIONS

- Temperature Supervision
- Remote Monitoring
- Industrial Automation
- PLC and SCADA

PT100 Inputs Module

- 8 Differential Channels of PT100 Sensors
- With Serial MODBUS Communication

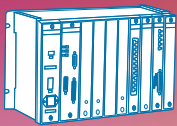


RMS2-PT

Using the **RMS2-PT**, you can accurately acquire temperature measurements from **2-wire and 3-wire PT100 sensors**.

The acquired data is transmitted through an **RS232/485 serial port** using the **Modbus RTU/ASCII communication protocol**.

MODBUS Master



**Modbus RTU/ASCII
RS232 / RS485**

RMS2-PT



PT100



GENERAL FEATURES

- **Modbus RTU/ASCII**
 - Serial Port RS232/485
- **8 PT100 Sensor Inputs**
 - 2 or 3 Wires sensors

APPLICATIONS

- Temperature Supervision
- Remote Monitoring
- Industrial Automation
- PLC and SCADA

Thermocouple Inputs Module

- 8 Differential Channels of Thermocouples
- With Serial MODBUS Communication

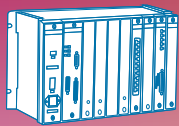


RMS2-TC

Using the **RMS2-TC**, you can accurately acquire temperature measurements from Thermocouples.

The acquired data is transmitted through an **RS232/485 serial port** using the **Modbus RTU/ASCII communication protocol**.

MODBUS Master



Modbus RTU/ASCII
RS232 / RS485

RMS2-PT



8 Inputs

TERMOCUPLAS
J, K, T, R, N, E, S

GENERAL FEATURES

- **Modbus RTU/ASCII**
 - Serial Port RS232/485
- **8 Thermocouple Sensor Inputs**
 - Type J,K,T,R,N,E,S

APPLICATIONS

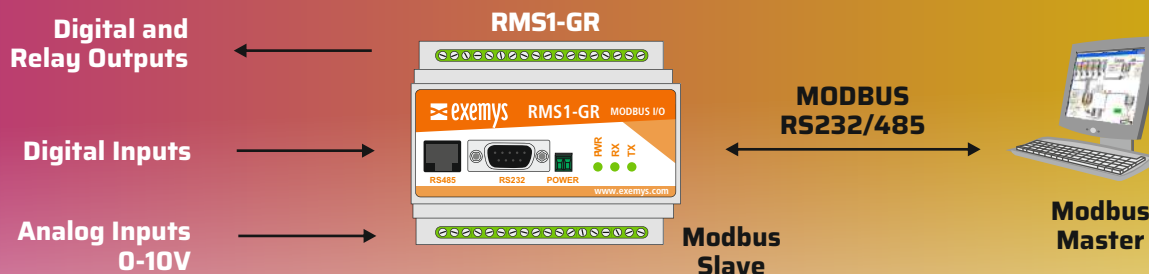
- Temperature Supervision
- Remote Monitoring
- Industrial Automation
- PLC and SCADA

I/O Expansión Module

Analog, Digital and Relay with Serial Modbus



The **RMS1-GR** is an industrial I/O expansion module designed for easy integration with any control or automation system operating through the **Modbus Serial RTU/ASCII protocol**.



GENERAL FEATURES

- Up to 16 Relay or Transistor Outputs (depending on model)
- Up to 16 Transistor or Opto-isolated Inputs (depending on model)
- Up to 6 Analog Inputs 0-10V (depending on model)
- RS232 or RS485 Serial Port with Modbus RTU/ASCII Slave Protocol
- Simple Configuration via Serial Port
- DIN Rail Enclosure
- Power Supply: +10 to 30Vdc

ORDERING CODES

RMS1 - AB - 110 - CD - EF - GR - MB

- (V: Voltage 0-10Vdc, 1000 counts, impedance 22KΩ)
- Number of Analog Inputs: (0 or 6) (Maximum of 8)
- Number of Digital Outputs: (0, 8, or 16)
- Number of Digital Inputs: (0, 8, or 16)
- Type of Digital Outputs: (R: relay, T: transistor, X: none)
- Type of Digital Inputs: (T: transistor, O: opto-isolated, X: none)

I/O Expansion Module

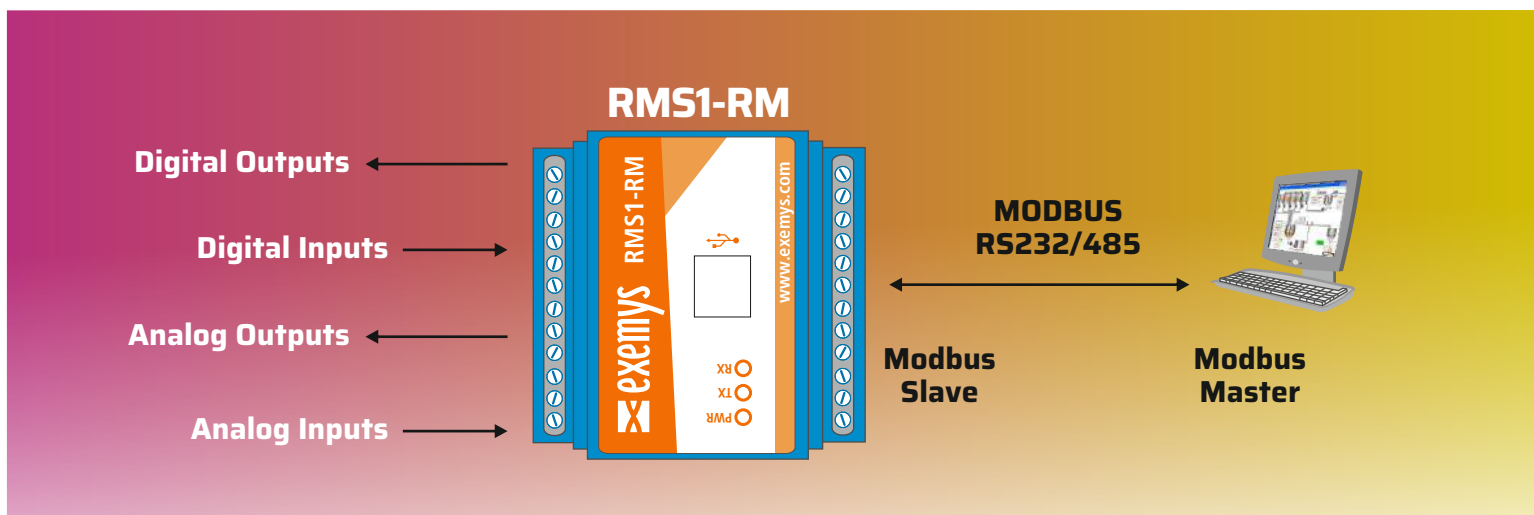
Digital and Analog I/O With Serial MODBUS



RMS1-RM

The **RMS1-RM** is an industrial I/O expansion module designed for easy integration with any control or automation system operating through the **Modbus Serial RTU/ASCII protocol**.

Additionally, it can function as a **pulse counter** on its digital inputs and also allows the creation of an **I/O "TUNNEL"**, for both digital and analog signals, using **master mode**.



GENERAL FEATURES

- Programmable via Simple Text Scripts
- Up to 4 Analog Inputs (0-10V and 4-20mA)
- Up to 2 Analog Outputs (0-10V and 4-20mA)
- 4 Digital Inputs (with counting capability) and 2 Digital Outputs
- RS232 or RS485 Serial Port with Modbus Slave RTU/ASCII Protocol
- Special Modbus Master Mode for digital or analog I/O tunneling
- Encoder Counting Support for Incremental Encoders
- Configuration via USB Port
- DIN Rail Enclosure

PROGRAMMABLE WITH SCRIPTS

(Program Special Functions)

- Mathematical Operations
- Logical Operations
- Timing Operations
- Reading of Internal Inputs
- Turning Digital Outputs On and Off
- Serial Port Data Interpretation
- **Serial WITS** Data

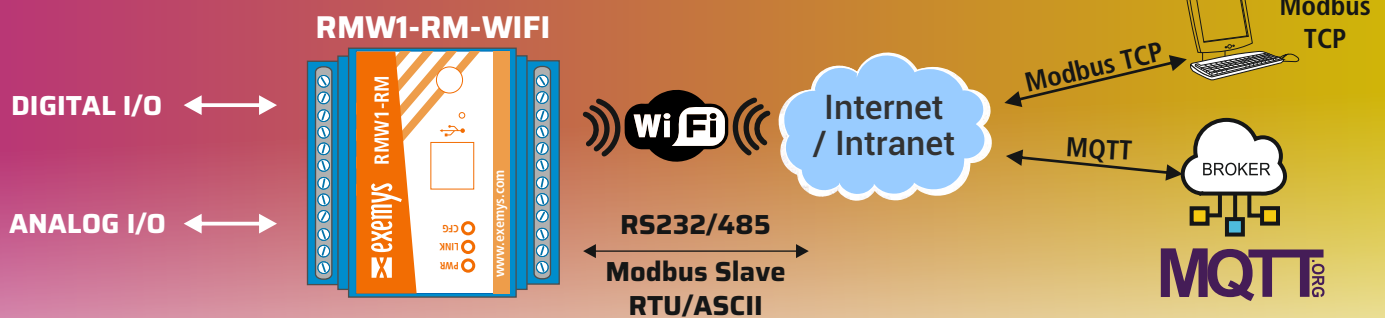
I/O Expansión Module

- With Modbus RTU/ASCII and TCP Wi-Fi communication
- With MQTT publication and Programmable via SCRIPTS



The **RMW1-RM-WIFI** is a highly versatile industrial Input/Output expansion module designed for seamless integration with control or automation systems. This device supports **Modbus Serial Slave RTU/ASCII and Modbus TCP protocols via WiFi**, ensuring compatibility in any environment.

Thanks to its **SCRIPT programming capability**, it can perform automation tasks. It also enables the publication of acquired data and the reception of commands using the **MQTT protocol**, which is essential for Industry 4.0 applications.



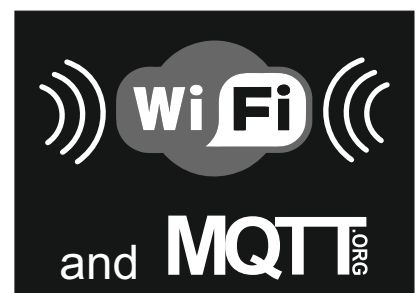
GENERAL FEATURES

- Up to 4 analog inputs (0-10V and 4-20mA)
- Up to 2 analog outputs (0-10V and 4-20mA)
- 4 digital inputs (with counting capability) and 2 digital outputs
- RS232 or RS485 serial port
- **WiFi communication**
- **Modbus Slave RTU/ASCII** and **Modbus TCP** communication protocols over WiFi
- **MQTT** Broker publishing
- Configuration via USB port
- **Programming using text SCRIPTS**
- Power supply: +10 to +30Vdc
- DIN rail enclosure

PROGRAMMABLE WITH SCRIPTS

Program Special Functions

- Mathematical Operations
- Logical Operations
- Timing Operations
- Reading of Internal Inputs
- Turning Digital Outputs On and Off
- Serial Port Data Interpretation
- MQTT Data Publishing/Receiving



MEDIA CONVERTERS

TTL/RS232 to RS485/422

RS232/485 to Fiber Optic

Ethernet to Fiber Optic



MEDIA CONVERTERS

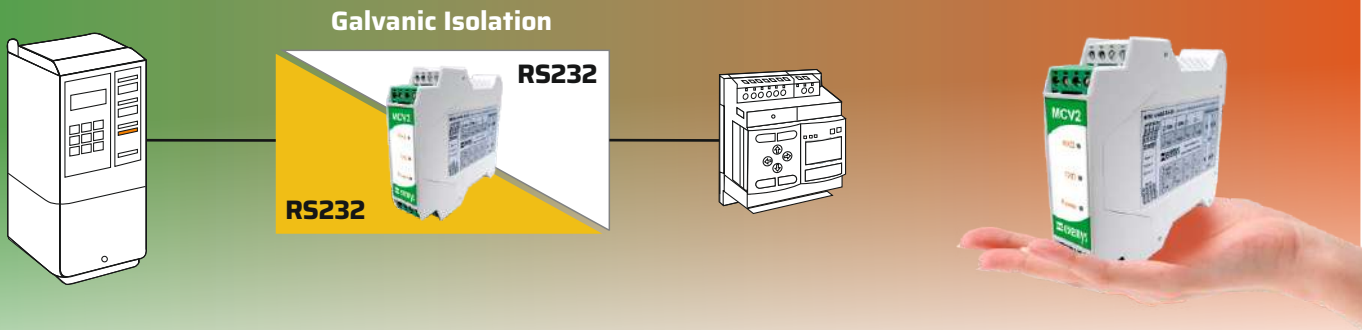
RS232 Port Isolator

Galvanic Isolation: 2500Vrms



MCV2-A232

The **MCV2-A232** Isolator is designed to provide galvanic isolation for an RS232 port, optimizing communication in industrial environments with high electrical interference.



GENERAL FEATURES

- Surge Protection on the RS232 Line
- 2500Vrms Galvanic Isolation (1 minute)
- Flow Control Support (RTS and CTS)
- Baud Rate up to 115200 bps
- LED Indicators for Power and Data Flow
- Removable Terminal Blocks for Easy Wiring
- Power Supply: +10 to 30 VDC
- Flame-Retardant Industrial Enclosure with DIN Rail Mounting

Isolator

RS232

RS232

Galvanic Isolation

MEDIA CONVERTERS

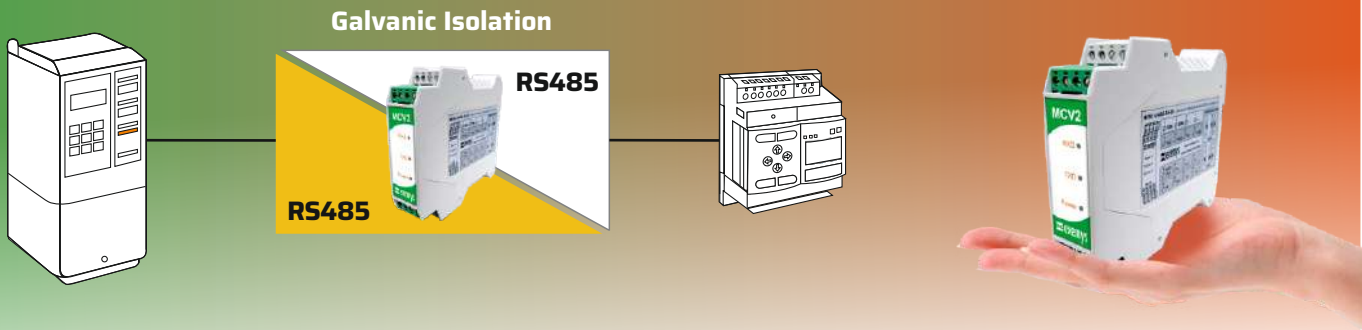
RS485 Port Isolator

Galvanic Isolation 2500Vrms



MCV2-A485

The **MCV2-A485** Isolator is designed to provide galvanic isolation for an RS485 port, optimizing communication in industrial environments with high electrical interference.



GENERAL FEATURES

- Surge Protection on the RS485 Line
- 2500Vrms Galvanic Isolation (1 minute)
- Baud Rate up to 115200 bps
- LED Indicators for Power and Data Flow
- Removable Terminal Blocks for Easy Wiring
- Power Supply: +10 to 30 VDC
- Flame-Retardant Industrial Enclosure with DIN Rail Mounting

Isolator

RS485

RS485

Galvanic Isolation

MEDIA CONVERTERS

RS232 to RS485/422 Converter

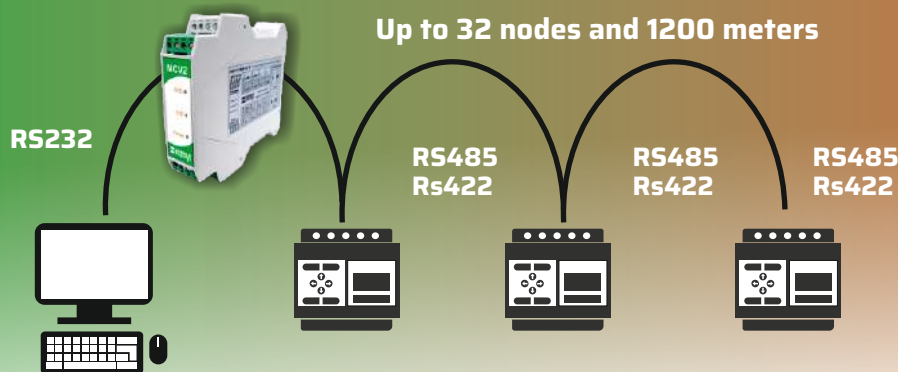
Galvanic Isolation



MCV2-C485

The **MCV2-C485-IA** converter is designed to facilitate communication between two or more devices located over long distances. It is particularly well-suited for industrial environments with high electrical interference, thanks to its use of differential pair signaling—characteristic of the RS485/RS422 standards—and its galvanic isolation.

Additionally, it supports both full-duplex and half-duplex modes, which can be configured by the user via **jumpers accessible inside the device.



GENERAL FEATURES

- Industrial RS232 to RS485/422 Converter
- Baud Rate up to 115200 bps
- Supports up to 32 nodes on the same network
- Surge Protection on the RS485/422 Line
- 2500Vrms Galvanic Isolation (1 minute)
- LED Indicators for Power and Data Flow
- Includes Biasing Resistors
- Removable Terminal Blocks for Easy Wiring
- Flame-Retardant Industrial Enclosure with DIN Rail Mounting
- Power Supply: +10 to +30 VDC

Converter

**RS485
RS422**

RS232

Galvanic Isolation

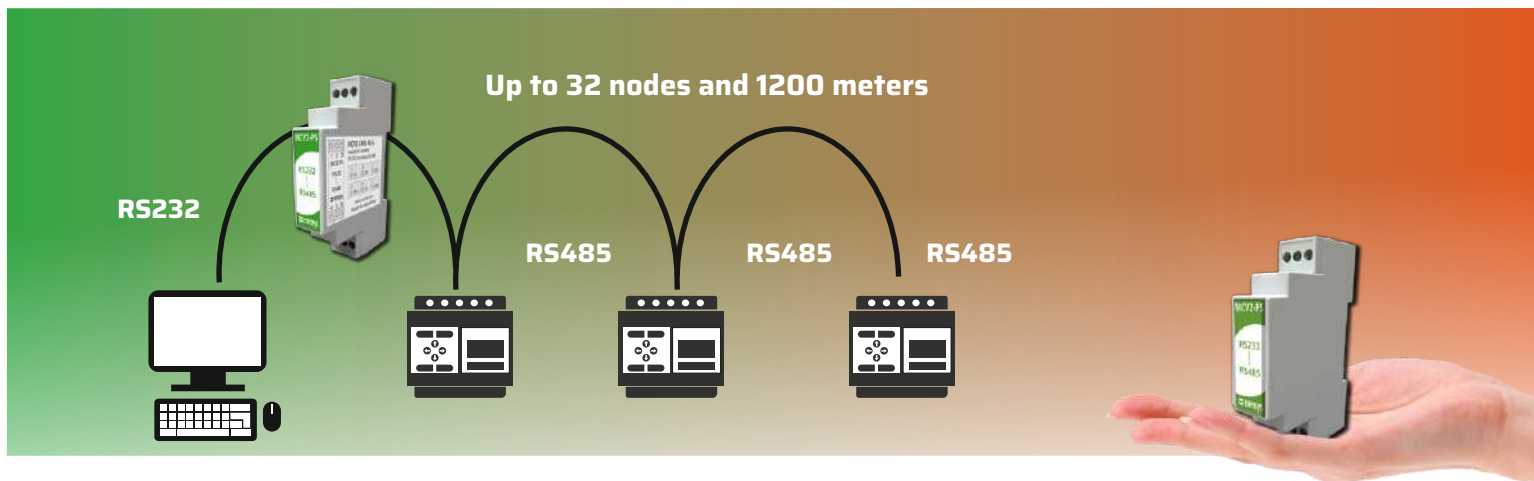
RS232 to Rs485 Converter

Aislación Galvánica



MCV2-C485
PS

The **MCV2-C485-PS** converter is designed to facilitate communication between two or more devices located over long distances. It is particularly well-suited for industrial environments with high electrical interference, thanks to its use of differential pair signaling, characteristic of the RS485 standard, and its galvanic isolation.



FEATURES

- Industrial RS232 to RS485 Converter
- Baud Rate up to 115200 bps
- Supports up to 32 Nodes on the Same Network
- Surge Protection on the RS485 Line
- 2500Vrms Galvanic Isolation (1 minute)
- LED Indicators for Power and Data Flow
- Includes Biasing Resistors
- Removable Terminal Blocks for Easy Wiring
- Flame-Retardant Industrial Enclosure with DIN Rail Mounting
- Power Supply: +10 to +30 VDC

Converter

RS485

RS232

Galvanic Isolation

Fiber to Ethernet Converter

Monomode and Multimode



MCV1-FO-
ETH

The industrial converters **MCV1-FO-ETH** are designed to convert Ethernet data into fiber optic signals. This solution is not only cost-effective and efficient but also enables secure long-distance communication, avoiding electromagnetic interference that commonly affects electrical signals in copper cable communications.

Fiber Optic

100 Base Fx
2 Km - **Multimode**

100 Base Lx10
10 Km - **Monomode**



Ethernet

10/100 Base Tx



FEATURES

- Operating Mode: Multimode or Singlemode
- Ethernet Port: 10/100 Base TX, RJ45 connector
- Fiber Port: 100 Base FX, ST or SC connector (Multimode)
100 Base LX10, SC connector (Singlemode)
- Fiber Distance: 2 km for Multimode, 10 km for Singlemode
- Transfer Speed: Auto-negotiation at 10/100 Mbps
- Modes: Half/Full Duplex on fiber TX port
- Wavelength: 1300 nm
- Protocol: CSMA/CD, Auto-crossover
- Power Supply: +10 to +30 VDC / max. 200 mA
- Operating Temperature: 0 to 70°C
- Enclosure: Industrial DIN Rail, flame-retardant

Fiber to Serial Converter

RS232/485/422 Port



**MCV1-FO-
SER**

The industrial converter **MCV1-FO-SER** is designed to convert serial data into fiber optic signals, enabling safe communication over longer distances. This device is essential for avoiding electromagnetic interference, which often affects electrical signals in copper cable communications.



GENERAL FEATURES

- Operation Mode: Multimode
- Serial Port: **RS232/485/422**, 115200 Bauds
- Fiber Port: ST Connector
- Power: +10 to +30 Vdc / 200mA max.
- Operation Temperature: -15 to 65° C
- Enclosure: Industrial Riel DIN, Flame-retardant
- Distance: 2.7 Km max.
- Fiber Optic Cable: Multimode 50/125 or 62.5/125µm
- Wavelength: 820nm
- Supports ring operation mode

RS232 Port Protector

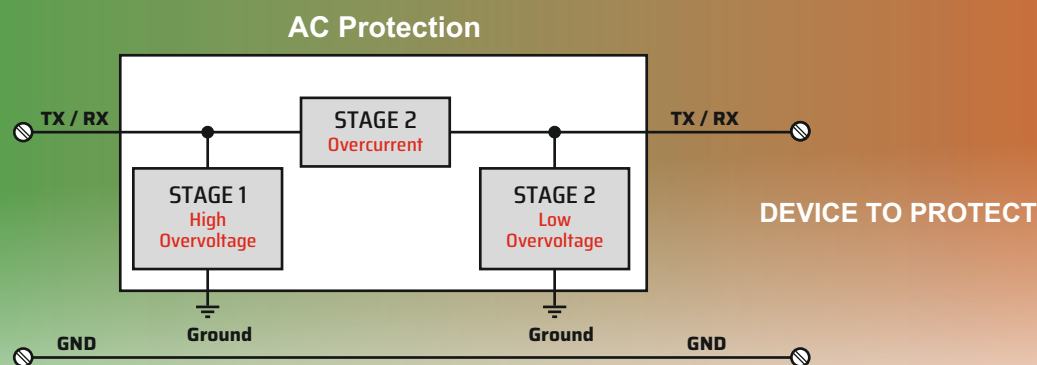
Against Overvoltage and Overcurrent



PS-232

Transient spikes and overvoltages on data lines are often caused by induced energy due to environmental conditions or the switching of heavy inductive loads.

The **PS-232** module has been specifically designed to protect your electronic equipment from these potentially destructive interferences.



GENERAL FEATURES

- Protects against overvoltages and overcurrents
- Features a 3-stage cascaded protection circuit
- Shields against AC current disturbances
- Built with next-generation redundant components
- Automatically resets after current spikes



TECHNICAL SPECIFICATIONS

- Protection against transient spikes: 265 Vrms and 20 kA
- Protection against AC disturbances: 120 Vrms
- Complies with protection requirements
 - ESD (Electrostatic Discharges): IEC 61000-4-2 Level 4 (8 kV contact / 15 kV air)
 - EFT (Electrical Fast Transients): IEC 61000-4-4 Level 3, 1 kV, 20 A
 - Current Surge/Lightning: IEC 61000-4-5 Level 4, 4 kV, 95 A

RS485 Port Protector

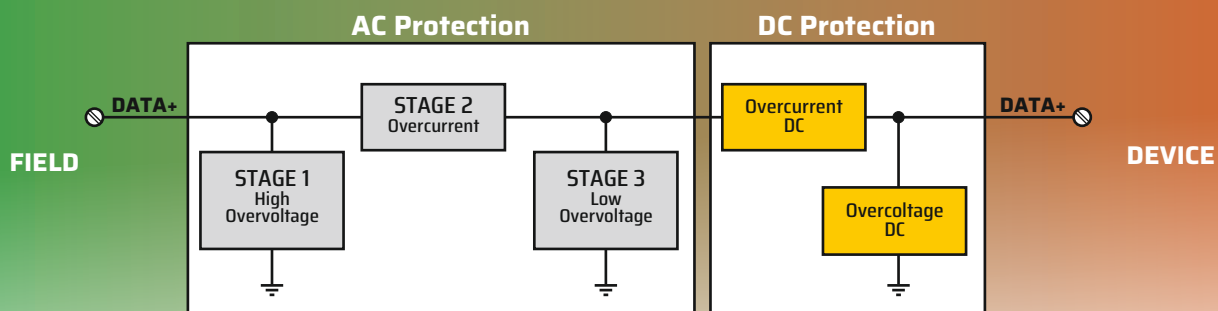
Against Overvoltage and Overcurrent



PS-485

Transient spikes and overvoltages on data lines are often caused by induced energy due to environmental conditions or the switching of heavy inductive loads.

The **PS-485** module has been specifically designed to protect your electronic equipment from these potentially destructive interferences.



GENERAL FEATURES

- **Protects against overvoltages and overcurrents**
- Features a 5-stage cascaded protection circuit
- Shields against AC and DC current disturbances
- Built with next-generation redundant components
- Automatically resets after current spikes



TECHNICAL SPECIFICATIONS

- Protection against transient spikes: 265 Vrms and 20 kA
- Protection against AC disturbances: 120 Vrms
- Complies with protection requirements
 - ESD (Electrostatic Discharges): IEC 61000-4-2 Level 4 (8 kV contact / 15 kV air)
 - EFT (Electrical Fast Transients): IEC 61000-4-4 Level 3, 1 kV, 20 A
 - Current Surge/Lightning: IEC 61000-4-5 Level 4, 4 kV, 95 A

NETWORKING INDUSTRIAL

Industrial Switches

Fiber Optic to Ethernet
Port Converter

Access Point and WiFi Client



Industrial Switches

- Ethernet and Fiber Optic
- Monomode and Multimode



ESW

The **ESW** product family consists of an advanced series of Industrial Switches designed for integration with both singlemode and multimode fiber optic systems. These devices are specifically engineered to meet the demanding conditions of industrial environments, ensuring high performance and reliability. In addition, their robustness and network management capabilities make them ideal for industrial applications where efficiency and durability are critical.



GENERAL FEATURES

- 4-Port Switch Functionality
- Ethernet Ports: 10 Base T / 100 Base TX, RJ45 connector
- Auto-negotiation IEEE 802.3 / 802.3u
- Full-speed, non-blocking reception and transmission
- Half and Full Duplex Flow Control
- Fiber Port: 100 Base FX, ST or SC connector (Multimode)
100 Base LX10, SC connector (Singlemode)
- Fiber Operating Modes: Multimode or Singlemode
- Fiber Distance: 2 km (Multimode) and 10 km (Singlemode)
- Fiber Wavelength: 1300 nm
- Power Supply: +10 to +30 VDC / max. 200 mA
- Operating Temperature: 0 to 70° C
- Enclosure: Industrial flame-retardant, DIN rail mounting

Wi-Fi Access point and Client



eWAP

eWAP is a device that functions both as a Wi-Fi access point and client, specifically designed for use in industrial environments. This unit is optimized to provide robust and reliable connectivity, even under the most demanding conditions.

Wi-Fi Access Point mode



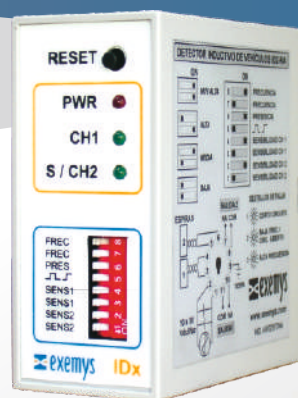
Wi-Fi Client mode



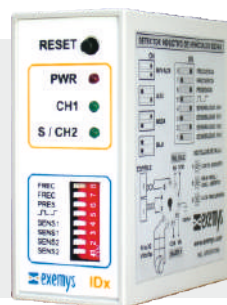
GENERAL FEATURES

- Modes of Use:
 - **WiFi Access Point** Mode
 - **WiFi Client** Mode
- Ethernet Ports: 2 x 10 Base T / 100 Base TX, connector RJ45
- Wi-Fi Interface: IEEE802.11b/g/n
- Antenna: Wi-Fi 2.4 Ghz, 2 dBi - Connector RP-SMA
- Dimensions: 100 mm x 22,5 mm x 112 mm
- Power: +10 to +30 Vdc / 200mA max.
- Operation temperature: -15° C to +65° C
- Storage Temperature: -40°C to +75°C
- Enclosure: Flame-retardant, Industrial DIN Rail

OTHER PRODUCTS



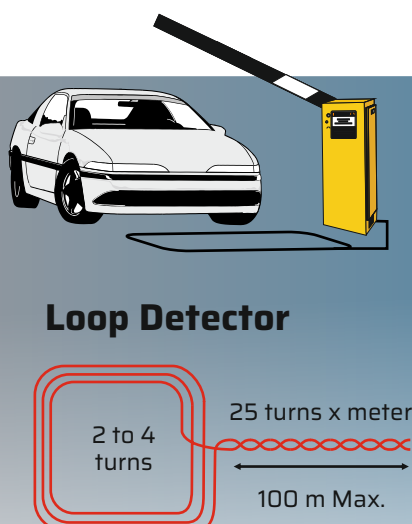
Inductive Loop Detector Magnetic Loops



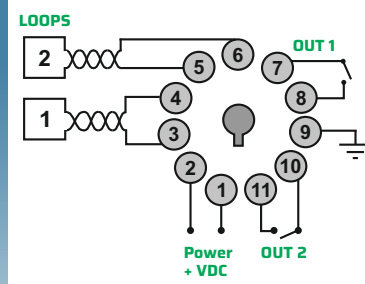
IDX

IDX is an advanced inductive vehicle detector designed to detect the presence of vehicles and activate a specific output in response. This device is ideal for access control systems, traffic lights, and parking management systems, providing an efficient and reliable solution for traffic automation and vehicle safety.

Its inductive technology enables precise and fast detection, ensuring an appropriate response in dynamic environments.



11 pins Connector



GENERAL FEATURES

- 1 or 2 multiplexed channels
- 4 levels of Sensitivity and Frequency
- Opto-isolated or Relay Outputs
- Fail-safe operation
- Automatic tuning
- Presence or Pulse output
- Advanced fault diagnostics
- Automatic sensitivity shift
- Direction detection
- Tracking of environmental fluctuations

APPLICATIONS

- Toll stations
- Automatic barriers
- Motorized gates
- Smart traffic lights
- Vehicle access control
- Vehicle counting
- Speed measurement
- Direction detection

Industrial GPS with Modbus Serial and NMEA 0183



The GPS-MB is a rugged Industrial GPS device with Modbus RTU/ASCII and NMEA 0183 communication protocols.

It features two serial ports:

- One RS232 port for configuration and NMEA 0183 sentence output
- One RS485 port with Modbus Slave RTU/ASCII protocol

**GPS/GLONASS
Constellation**



GPS-MB

**RS232
Port**

**NMEA
0183**

**RS485
Port**

**Modbus
Slave
RTU/ASCII**

GENERAL FEATURES

- GPS and GLONASS Constellations
 - GPS Frequency: L1, 1575.42 MHz
 - GLONASS Frequency: L1, 1598.0625 ~ 1605.375 MHz
- 1 RS485 Port with Modbus ASCII/RTU Slave for GPS data
- 1 RS232 Port for configuration and NMEA 0183 data
- Status Indicator LEDs
- Includes Magnetic Antenna with 3m Cable
- Power Supply: +10 to +30 VDC
- Industrial DIN Rail Mounting

GPS DATA

- | | |
|--------------------------------|-------------------|
| - Latitude | - Horizontal |
| - Longitude | Accuracy |
| - Altitude | - UTC Date |
| - Geoidal Separation | - UTC Time |
| - True Heading | - Signal Status |
| - Magnetic Variation | - Autonomous or |
| - Speed | Differential Mode |
| - Surface Speed | |
| - GPS Quality | |
| - Number of Satellites | |
| - Age of Differential GPS Data | |



ORDER CODES



GRD-XF-4G

MODEL	SERIA PORT	ANALOG INPUTS	DIGITAL INPUTS	DIGITAL OUTPUTS	FREQUENCY
GRD1620-XF-4GA	1 RS232 / 1 RS485	---	---	---	Latin America and Australia
GRD1620-XF-4GM	1 RS232 / 1 RS485	---	---	---	Global
GRD3625-XF-4GA	1 RS232 / 1 RS485	4 0-1V/0-10V/4-20mA Configurables por Software	6 (6 para pulso de hasta 45Hz) Configurables por Software		Latin America and Australia
GRD3625-XF-4GM	1 RS232 / 1 RS485	4 0-1V/0-10V/4-20mA Configurables por Software	6 (6 para pulso de hasta 45Hz) Configurables por Software		Global
GRD3534-XF-4GA	2 RS232 / RS485	8 Configurables 0-1V/0-10V/4-20mA	16 (8 para pulsos de hasta 1KHz)	8	Latin America and Australia
GRD3534-XF-4GM	2 RS232 / RS485	8 Configurables 0-1V/0-10V/4-20mA	16 (8 para pulsos de hasta 1KHz)	8	Global
GRD3534-XF-4GA/4GM	2 RS232 / RS485	7 Configurables 0-1V/0-10V/4-20mA 1 Entrada Potenciometro 1K Ohm	16 (8 para pulsos de hasta 1KHz)	7	Global / Latin America and Australia
GRD3534-XF-4GA/4GM	2 RS232 / RS485	6 Configurables 0-1V/0-10V/4-20mA 2 Entradas Potenciometro 1K Ohm	16 (8 para pulsos de hasta 1KHz)	6	Global / Latin America and Australia

GRD-MQ-4G

MODEL	SERIA PORT	Discrete Inputs / Outputs	Analog inputs	Modbus I/O Expansion
GRD1620-MQ-4GA/4GM	1 RS232 + 1 RS485	---	---	YES
GRD3625-MQ-4GA/4GM	1 RS232 + 1 RS485	6 Configurables 6 DI pulses 45 Hz	4 0-10V / 4-20mA	YES
GRD3534-MQ-4GA/4GM	2 x RS232/RS485	16 inputs - 8 outputs 8 DI pulsos 1 KHz	8 0-10V / 4-20mA	YES

ORDER CODES



cLAN-XF

MODEL	ETHERNET PORT	SERIAL PORT	DIGITAL INPUTS	DIGITAL OUTPUTS	ANALOG INPUTS	SCRIPT	EXPANSION I/O
CLAN-1205-XF	10/100 Mbit	2 Ports 1x RS232 + 1x RS485/422 ISO	---	---	---	YES	YES
CLAN-2205-XF	10/100 Mbit	2 Ports 1x RS232 + 1x RS485/422 ISO	10 Configurables (10 for pulses)		---	YES	YES
MODEL	PORT	SERIAL PORT	DIGITAL INPUTS	DIGITAL OUTPUTS	ANALOG INPUTS	SCRIPT	EXPANSION I/O
CLAN-3625-XF	Ethernet and WiFi	1 x RS232 /485	6 (6 for pulses)		4 0-1V, 0-10V, 4-20mA	YES	YES
MODEL	ETHERNET PORT	SERIAL PORT	DIGITAL INPUTS	DIGITAL OUTPUTS	ANALOG INPUTS	SCRIPT	EXPANSION I/O
CLAN-1520-XF	10/100 Mbit	2 x RS232 /485	---	---	---	YES	YES
CLAN-3524-XF	10/100 Mbit	2 x RS232 /485	16 (8 FOR PULSES)	8	8 0-1V, 0-10V, 4-20mA	YES	YES



cLAN-MQ

			DIGITAL INPUTS	DIGITAL OUTPUTS	ANALOG INPUTS		
MODEL	PUERTO ETHERNET	SERIAL PORT	ENTRADAS DIGITALES			SCRIPT	EXPANSIÓN I/O
CLAN-1205-MQ	10/100 Mbit	2 Puertos 1x RS232 + 1x RS485/422 Aislado	---	---	---	YES	YES
CLAN-2205-MQ	10/100 Mbit	2 Puertos 1x RS232 + 1x RS485/422 Aislado	10 Configurables (10 para pulsos)		---	YES	YES
MODEL	PORT	SERIAL PORT	ENTRADAS DIGITALES	SALIDAS DIGITALES	ENTRADAS ANALÓGICAS	SCRIPT	EXPANSIÓN I/O
CLAN-3625-MQ	Ethernet y WiFi	1 x RS232 /485	6 (6 for pulses)		4 0-1V, 0-10V, 4-20mA	YES	YES
MODEL	PUERTO ETHERNET	SERIAL PORT	ENTRADAS DIGITALES	SALIDAS DIGITALES	ENTRADAS ANALÓGICAS	SCRIPT	EXPANSIÓN I/O
CLAN-1520-MQ	10/100 Mbit	2 x RS232 /485	---	---	---	YES	YES
CLAN-3524-MQ	10/100 Mbit	2 x RS232 /485	16 (8 for pulses)	8	8 0-1V, 0-10V, 4-20mA	YES	YES



wRemote

MODEL	TIPE	SERIAL PORT	EXTRAS	ANALOG INPUTS	ANALOG OUTPUTS	DIGITAL INPUTS	DIGITAL OUTPUTS	NODES (max)
WRemote-1000-CN	Concentrador	RS232/485	USB	---	---	---	---	50
wRemote-1500-ETH-CN	Concentrador	RS232/485	USB/ETHERNET	---	---	---	---	50
WRemote-3005-ND	Nodo	RS232/485	USB	4x Configurables 0-10V / 4-20mA	---	4	2	---
WRemote-5005-ND	Nodo	RS232/485	USB	2x Configurables 0-10V / 4-20mA	2x Configurables 0-10V / 4-20mA	4	2	---

wSerial

MODEL	TIPE	SERIAL PORT	EXTRAS
WSerial-C	Concentrador	1x RS232/485	USB
WSerial-ETH-C	Concentrador	1x RS232/485	USB/ETHERNET
WSerial-N	Nodo remoto	1x RS232/485	USB

wTunnel

MODEL	SERIAL PORT	USB	ANALOG INPUTS	ANALOG OUTPUTS	DIGITAL INPUTS	DIGITAL OUTPUTS
Wtunnel-2002	RS232/485	Si	---	---	2	2
WTunnel-3001	RS232/485	Si	2x Configurables 0-10V / 4-20mA	---	2	2
WTunnel-5003	RS232/485	Si	2x Configurables 0-10V / 4-20mA	2	2	2

wRemote-Lora

MODEL	BAND	TIPE	SERIAL PORT	ANALOG INPUTS	DIGITAL INPUTS	DIGITAL OUTPUTS
wRemote-3005-LoRa-AU	Australiana	Nodo	USB RS232/RS485 (MODBUS)	4x Configurables 0-10V / 4-20mA	4	2
wRemote-3005-LoRa-US	Americana	Nodo	USB RS232/RS485 (MODBUS)	4x Configurables 0-10V / 4-20mA	4	2

wRemote-Lora-BP

MODEL	BAND	TIPE	ANALOG INPUTS	DIGITAL INPUTS
wRemote-3107-LoRa-BP-AU	Australiana	Nodo	4x Configurables 0-10V / 4-20mA	8
wRemote-3107-LoRa-BP-US	Americana	Nodo	4x Configurables 0-10V / 4-20mA	8



ORDER CODES



EGW1-IA3-MB

MODEL	OBSERVATIONS
EGW1-4B0-00-IA3-MB	4 puertos configurables RS232/RS485
EGW1-1C0-00-IA3-MB-IS	1 puerto configurable RS232/RS485 Aislado / RS422 Aislado
EGW1-1C0-10C-IA3-MB-IS	1 puerto configurable RS232/RS485 Aislado / RS422 Aislado 10 entradas / salidas digitales configurables

EGW1-EIP-MB

EGW1-1C00-00-IA3-EIP-MB

EGW1-IA3-HT

EGW1-110-1-IA3-MB-HT

EGW1-2ETH-IA3

MODEL	OBSERVATIONS
EGW1-4B0-00-2ETH-IA3-MB	4 puertos configurables RS232/RS485, 2 Puertos ethernet
EGW1-1C0-00-2ETH-IA3-MB-IS	1 puerto configurable RS232/RS485 Aislado / RS422 Aislado, 2 Puertos

EGW1-RM-WIFI

EGW1-1B0-00-RM-WiFi	EGW1-1B0-6C-RM-WiFi
- 1 Puerto Serie RS232/485 - 1 Puerto Ethernet - 1 Puerto WiFi	- 1 Puerto Serie RS232/485 - 1 Puerto Ethernet - 1 Puerto WiFi - 6 Entradas/Salidas digitales configurables

SGW1-IA3-MMP

MODEL	OBSERVATIONS
SGW1-4B0-00-IA3-MMP	4 puertos configurables RS232/RS485
SGW1-13B0-00-IA3-MMP-CF	1 puerto configurable RS232 con RTS para control de radio + 3 puertos configurables RS232/RS485

SGW1-MB-HL

SGW1-2B0-00-IA3-MB-HL

SGW1-MB-NM

SGW1-2B0-00-IA3-MB-NM



ORDER CODES



EGW1-IA3-MB

MODEL	OBSERVATIONS
EGW1-4B0-00-IA3-MB	4 puertos configurables RS232/RS485
EGW1-1C0-00-IA3-MB-IS	1 puerto configurable RS232/RS485 Aislado / RS422 Aislado
EGW1-1C0-10C-IA3-MB-IS	1 puerto configurable RS232/RS485 Aislado / RS422 Aislado 10 entradas / salidas digitales configurables

SSE232-IA3

MODEL	OBSERVATIONS
SSE232-400-00-IA3-CF	4 puertos RS232 con control de flujo
SSE232-4B0-00-IA3	4 puertos configurables RS232/RS485
SSE232-1C0-00-IA3-IS	1 puerto configurable RS232/RS485 Aislado / RS422 Aislado (half - duplex)
SSE232-1C0-10C-IA3-IS	1 puerto configurable RS232/RS485 Aislado / RS422 Aislado + 10 I/O digitales

SSE232-2ETH-IA3

MODEL	OBSERVATIONS
SSE232-4B0-00-2ETH-IA3	4 puertos configurables RS232/RS485 - 2 Puertos Ethernet
SSE232-1C0-00-2ETH-IA3-IS	1 puerto configurable RS232/RS485 Aislado / RS422 Aislado (half - duplex) 2 puertos Ethernet

SSE232-LE

MODEL	ETHERNET	SERIAL PORT
SSE232-1B0-00-LE	10/100 BaseT	1 Puerto Configurable RS232 o RS485

SSE232-LE-WIFI

MODEL	SERIAL PORT
SSE232-1B0-00-LE-WiFi	1 puerto configurable RS-232 o RS-485

SSE232-RM-WIFI

SSE232-110-00-RM-WiFi

SGW1-IA3-MIX

MODEL	OBSERVATIONS
SGW1-4B0-00-IA3-MIX	4 puertos configurables RS232/RS485



ORDER CODES



RME2-AI

RME2-AI-100-00-80-IA3

RME2-PT

RME2-PT-100-00-80-IA3

RME2-TC

RME2-TC-100-00-80-IA3

RMS2-AI

RMS2-AI-110-00-80-IA3-MB

RMS2-PT

RMS2-PT-110-00-80-IA3-MB

RMS2-TC

RMS2-TC-110-00-80-IA3-MB

RMS1-RM

MODELS	PORTS	DIGITAL INPUTS	DIGITAL OUTPUTS	ANALOG INPUTS 0-10V/4-20mA	ANALOG OUTPUTS 0-10V/4-20mA
RMS1-TT-110-42-0X-RM-MB	RS232/485	4	2	---	---
RMS1-TT-110-42-4VI-RM-MB	RS232/485	4	2	4	---
RMS1-TT-110-42-2VI-2VI-RM-MB	RS232/485	4	2	2	2

RMS1-GR

RMS1-TT- 110-1616-0X-GR-MB

RMS1-TT- 110-168 -6V-GR-MB

RMS1-OR-110-1616-0X-GR-MB

RMS1-OR-110-168 -6V-GR-MB



ORDER CODES



RMW1-RM-WIFI

MODELS	Wi-Fi	PORTS	DIGITAL INPUTS	DIGITAL OUTPUTS	ANALOG INPUTS 0-10V/4-20mA	ANALOG OUTPUTS 0-10V/4-20mA
RMW1-TT-110-42-0X-RM-WIFI	YES	RS232/485	4	2	---	---
RMW1-TT-110-42-4VI-RM-WIFI	YES	RS232/485	4	2	4	---
RMW1-TT-110-42-2VI-2VI-RM-WIFI	YES	RS232/485	4	2	2	2

MCV2-A232

MCV2-A232-IA-IS

MCV2-A485

MCV2-A485-IA-IS

MCV2-C485

MCV2-C485-IA-IS

MCV2-C485-PS

MCV2-C485-PS-IS

PS-485

PS-485

PS-232

PS-232

MCV1-FO-SER

MCV1-FO-SER-ST-MU (Multimode) (Conector ST)

MCV1-FO-ETH

MCV1-FO-ETH-ST-MU (Multimode) (Conector ST)
MCV1-FO-ETH-SC-MU (Multimode) (Conector SC)
MCV1-FO-ETH-SC-SI (Monomode) (Conector SC)

ESW

ESW-4ETH
ESW-4ETH-SC-MU Conector SC Multimodo
ESW-4ETH-ST-MU Conector ST Multimodo
ESW-4ETH-SC-SI Conector SC Monomodo

eWAP

eWAP-2ETH-1W

IDX

MODELS	OUTPUTS	CHANNELS
ID1-RL-0-NA-P	Rele normal abierto	1
ID2-RL-0-NA-P	Rele normal abierto	2
ID1-TR-0-NOFF-P	Transistor normalmente en OFF	1
ID2-TR-0-NOFF-P	Transistor normalmente en OFF	2
ID1-OP-0-NOFF-P	Optoaislada normalmente en OFF	1
ID2-OP-0-NOFF-P	Optoaislada normalmente en OFF	2

USB a RS485

USB-485-1800

GPS-MB

GPS-110-MB-PS



Make the most of your valuable remote assets with our products and solutions.

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