exemys

PRODUCT CATALOGUE

ISO 9001:2008 CERTIFICATION   UL 60950 CERTIFICATION   EUROPEAN COMMUNITY
                                                                      CE CERTIFICATION

ANAB ACCREDITED   ISO 9001 BUREAU VERITAS Certification   BUREAU VERITAS 1828   UKAS QUALITY MANAGEMENT 062   UL LISTED UL60950 16WU   CE

Index

Serial server
Serial to Ethernet

Serial Servers, Serial to Ethernet, can convert the information from any serial port RS232/485/422 to Ethernet data network TCP / IP. In this way an electronic device that was originally designed to get their information locally, thanks to a serial server can pass data to an Ethernet network or even Internet.

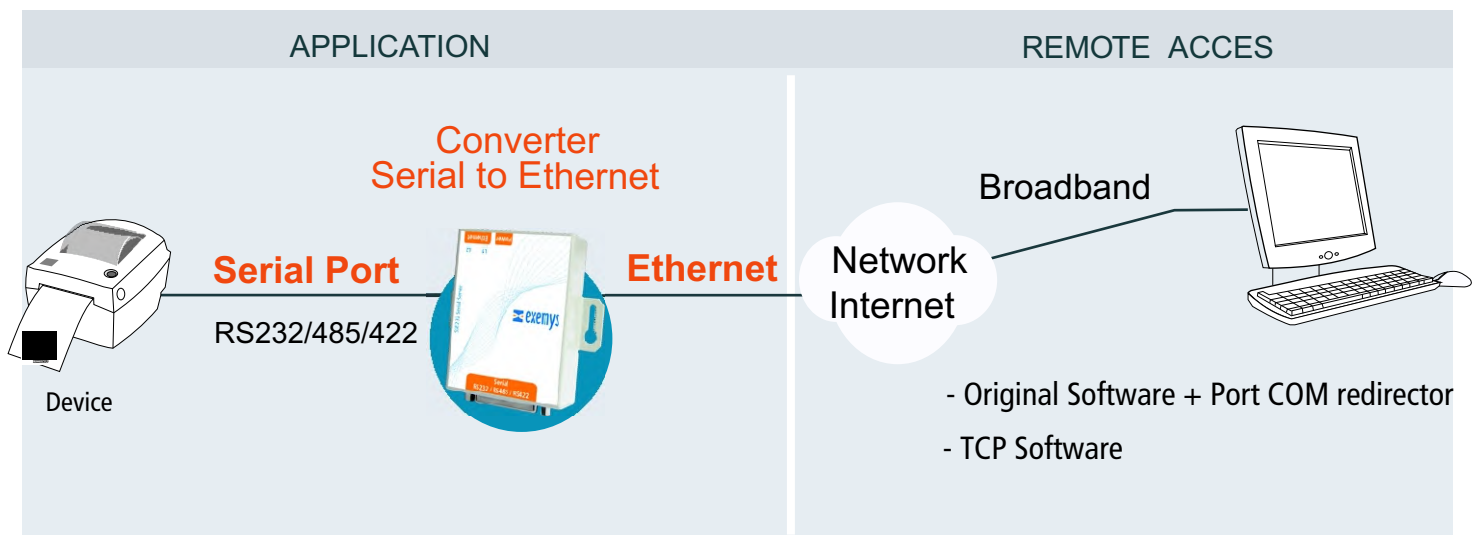| Industrial Serial Server	Comercial Serial Server	Low End Serial Server	Serial Server with Buffer	OEM Serial Server
SSE232-IA	SSE232-ST	SSE232-LE	SSB-LE	SSE232-OE

APPLICATION   REMOTE ACCES

Converter
Serial to Ethernet

Broadband

Serial Port   **Ethernet**   Network
Internet
RS232/485/422

Device

- Original Software + Port COM redirector
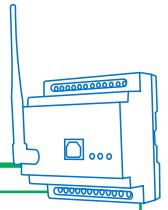- TCP Software

Serial Server **Serial to Ethernet** benefits:

- It provides the platform TCP / IP to serial devices, making more efficient remote operation of the devices.

- Reduce labor costs for maintenance and operation of the devices.

- Improve downtimes of machines and remote computers.

Serial server
Serial to Cellular GSM

Serial Servers, Serial to Cellular, allow you to convert data from any Serial Port, to a Cellular GSM/GPRS Network, and thus to internet, facilitating the connection of these devices, anywhere in the world.
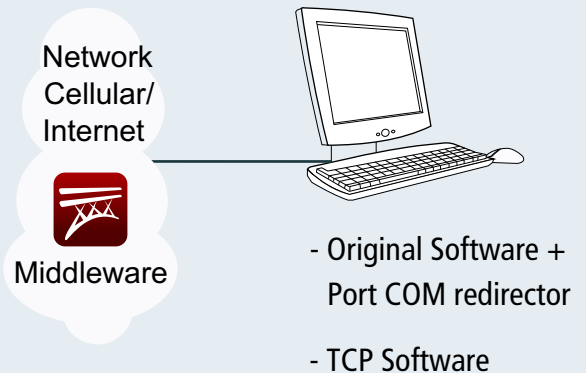
Serial Server GPRS

GRD1300

APPLICATION	REMOTE ACCES

Serial converter to GPRS

Serial Port
RS232/485/422

Cellular GPRS

Network Cellular/ Internet

Middleware

- Original Software + Port COM redirector
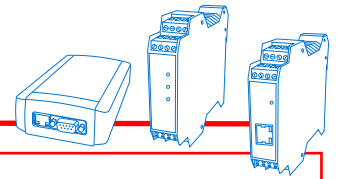
- TCP Software

Serial Server **Serial to Cellular GPRS** benefits:

- Lets go with a serial port, where they do wired networks.

- It establishes a serial data tunnel, with devices connected anywhere in the world.

- It is designed especially for control of remote assets.

Protocol Converters
Ethernet to Serial

The protocol converter enables you to connect electronic devices that communicate using different communication protocols or languages. Thus, the converter acts as a translator of languages for communication, allowing for example the interfacing of different brands
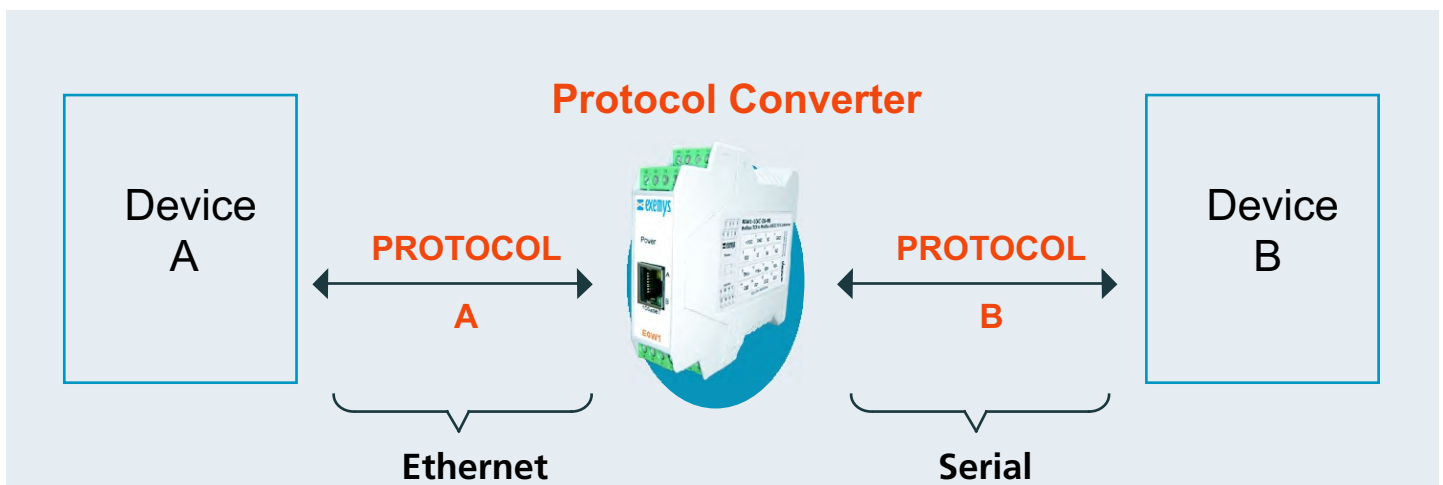
TCP Modbus to Modbus Serial

TCP Modbus to Df1

EGWI-MB

EGW1-MB-DF1

Protocol Converter

Device A

PROTOCOL A

PROTOCOL B

Device B
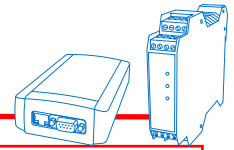
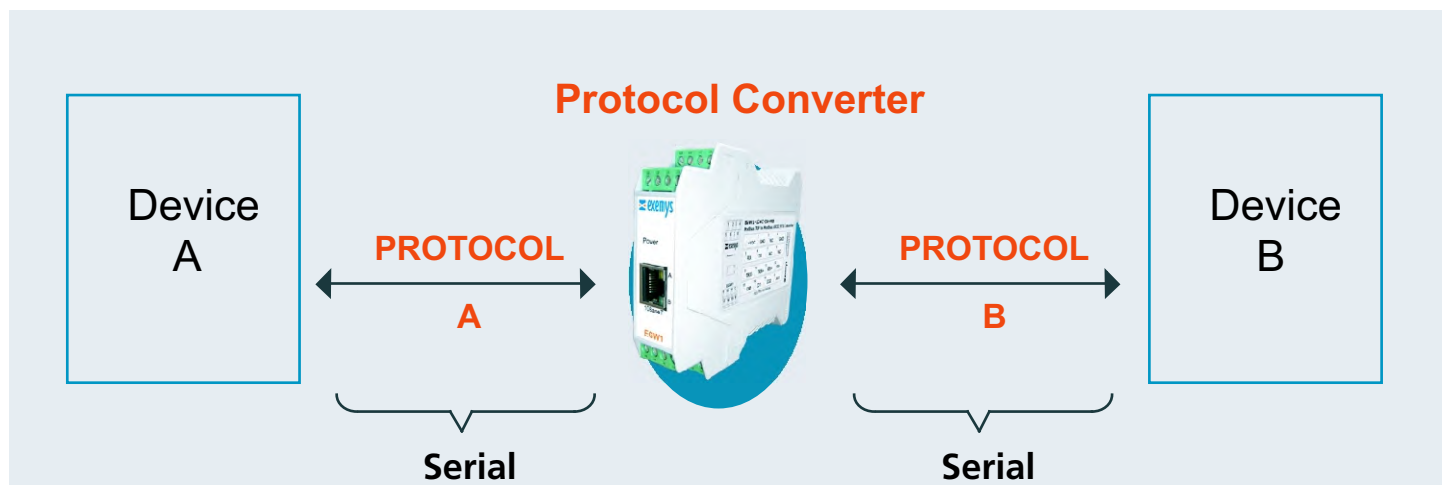**Ethernet**

Serial

Protocol Converters benefits:

■ Allows you to connect equipment from different brands.

■ They are very easy equipment installation.

■ They lack the complexity and problems of computers and special software.

Protocol Converters
Serial to Serial

The protocol converter enables you to connect electronic devices that communicate using different communication protocols or languages. Thus, the converter acts as a translator of languages for communication, allowing for example the interfacing of different brands

Modbus Multiplexer	Modbus Serial to DF1	Modbus Serial to Hostlink
SGW1-MMP	SGW1-MB-DF1	SGW1-MB-HL

Protocol Converter

Device A — PROTOCOL A (Serial) — [converter] — PROTOCOL B (Serial) — Device B
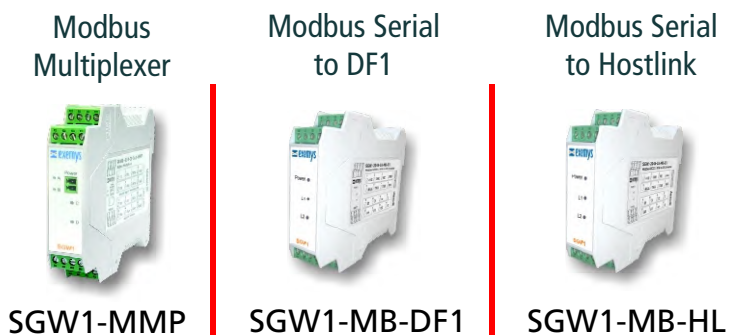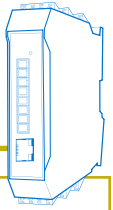
Protocol Converters benefits:

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■ They lack the complexity and problems of computers and special software.

Analog Acquisition Modules
Modules with Ethernet TCP/IP Interface

Analog Modules could obtain information from field sensors and transducers, sensors such as temperature, pressure, humidity and others.
The acquired information remains available for communication with other intelligent device like a PC, PLC or SCADA system, using different Ethernet communication protocols.
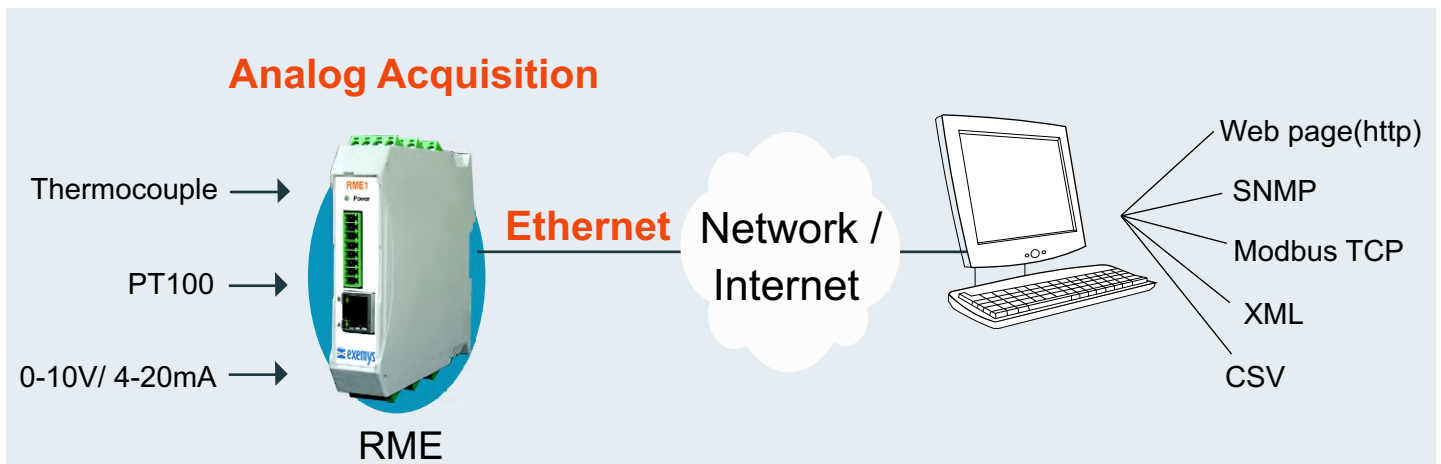
4-20mA / 0-10V	Thermocouple	PT100
RME1-AI	RME1-TC	RME1-PT

Analog Acquisition

Thermocouple →

PT100 →

0-10V/ 4-20mA →

RME

Ethernet Network / Internet

Web page(http)
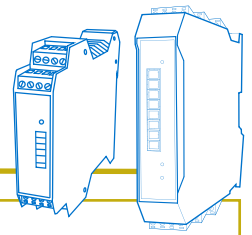
SNMP

Modbus TCP

XML

CSV

Modules with Ethernet TCP/IP Interface benefits:

■ Lets get the measurements of sensors and transducers, remote and distributed.

■ The information obtained can be taken by any intelligent system software or hardware (SCADA, PLCs, PCs)

■ Reduces the cost of acquisition per point.

■ It can connect to devices of different brands, thanks to its 5 communication protocols

Analog Acquisition Modules
Modules with Modbus Interface

Analog modules allow to obtain the information from sensors and transducers, field sensors such as temperature, pressure, humidity and others.
The acquired information remains available for communication with other intelligent device like a PC, PLC or SCADA system, using the Serial Modbus communication protocol.
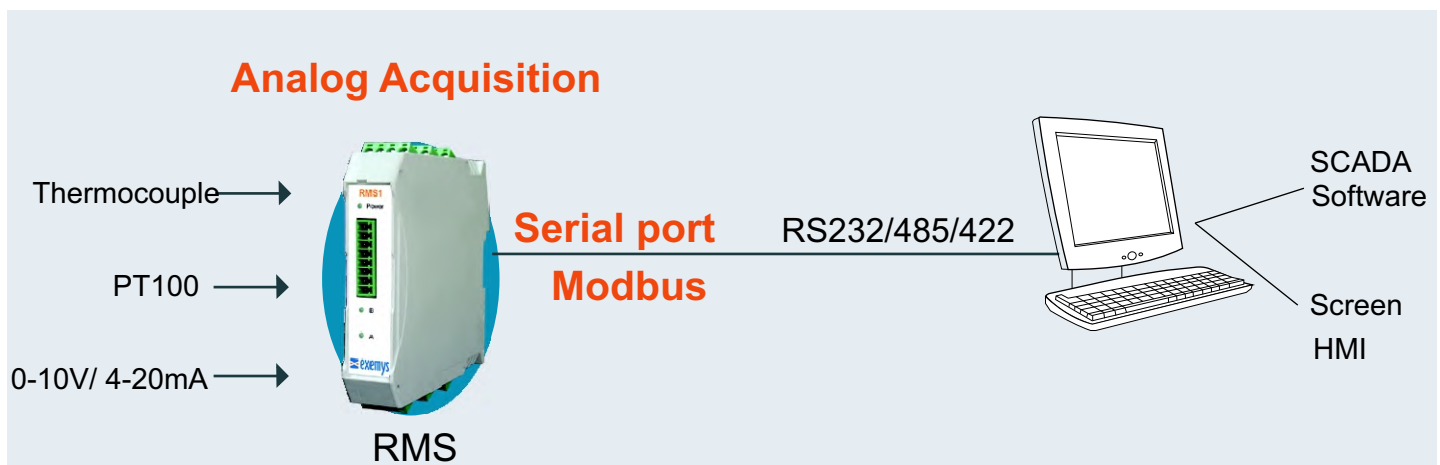
4-20mA / 0-10V	Thermocouple	PT100	Digital Temperature to Modbus
RMS1-AI	RMS1-TC	RMS1-PT	RMS1-TD

Analog Acquisition

Thermocouple →

PT100 →

0-10V/ 4-20mA →

RMS

Serial port Modbus

RS232/485/422
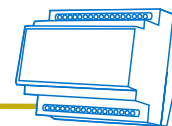
SCADA Software

Screen HMI

Modules with Modbus Interface benefits:

■ Lets get the measurements of sensors and transducers, remote and distributed.

■ The information obtained can be taken by any intelligent system software or hardware (SCADA, PLCs, PCs)

■ Reduces the cost of acquisition per point.

■ It can connect to devices of different brands, thanks to the universality of Serial Modbus protocol.

Analog Acquisition Modules
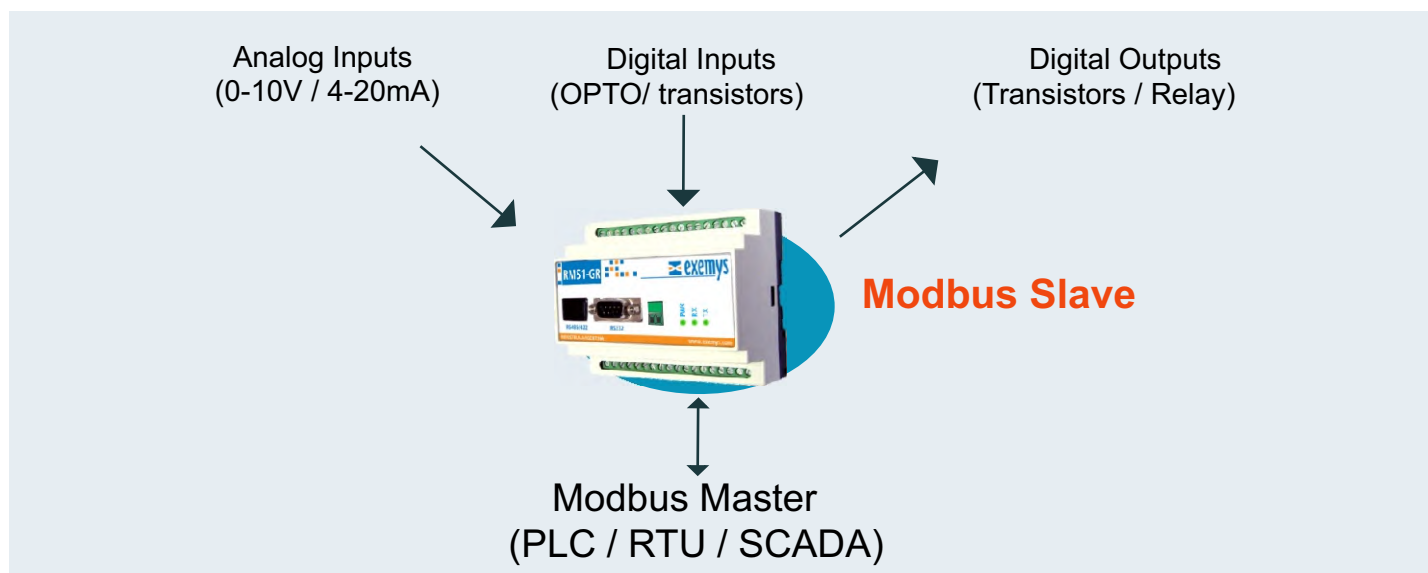## Modules with Modbus Interface

Analog modules allow to obtain the information from sensors and transducers, field sensors such as temperature, pressure, humidity and others.
The acquired information remains available for communication with other intelligent device like a PC, PLC or SCADA system, using the Serial Modbus communication protocol.

Modbus I/O Expansion Module

RMS1-GR

Analog Inputs
(0-10V / 4-20mA)

Digital Inputs
(OPTO/ transistors)

Digital Outputs
(Transistors / Relay)

Modbus Slave

Modbus Master
(PLC / RTU / SCADA)

Modules with Modbus Interface benefits:

- ■ Lets get the measurements of sensors and transducers, remote and distributed.

- ■ The information obtained can be taken by any intelligent system software or hardware (SCADA, PLCs, PCs)

- ■ Reduces the cost of acquisition per point.

- ■ It can connect to devices of different brands, thanks to the universality of Serial Modbus protocol.

Analog Acquisition Modules
Modules with Cellular Interface
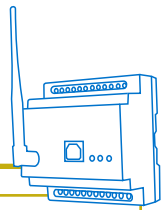
Analog Modules can obtain information from sensors and transducers, field sensors such as temperature, pressure, humidity and others.
The acquired information remains available for communication with other intelligent device like a PC, PLC or SCADA system through a cellular data communication via GPRS or SMS messages.
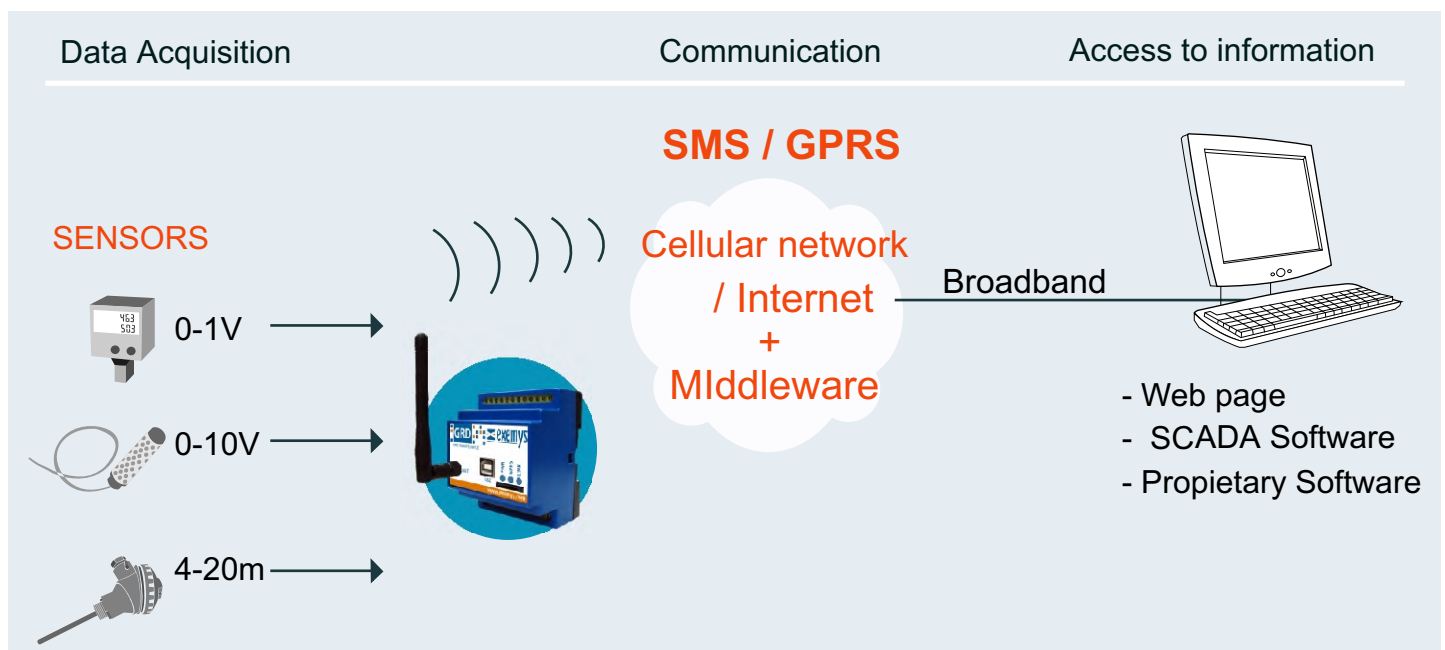
4-20mA / 0-10V
to GPRS

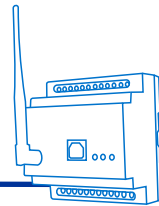4-20mA / 0-10V/ 0-1V
to GPRS

GRD

GRD New series

Data Acquisition

Communication

Access to information

SMS / GPRS

SENSORS

Cellular network
/ Internet
+
MIddleware

Broadband

0-1V

0-10V

4-20m

- Web page
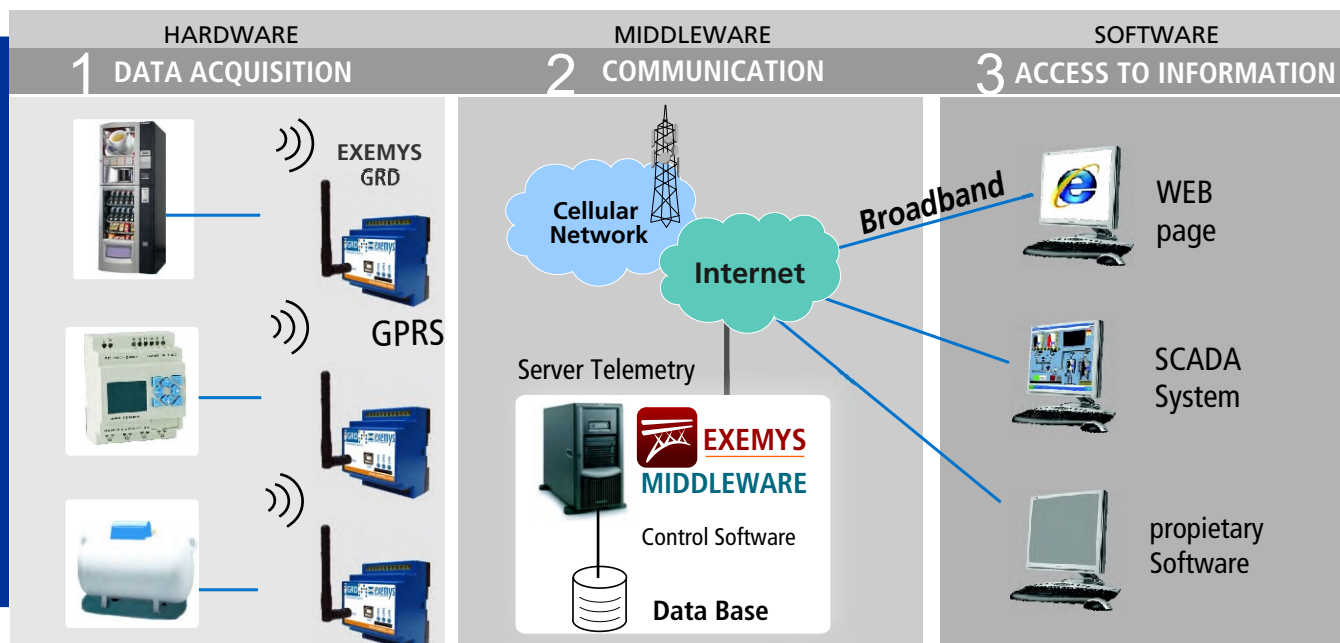- SCADA Software
- Propietary Software

GPRS Cellular Telemetry

Exemys Cellular Telemetry solution covers all field acquisition devices with GPRS communication, the concentrator software of devices and the different collection and visualization tools or final registration of the information

The main components of the complete solution are:
1) Data acquisition (Hardware)
2) Communication and Intermediation (Software)
3) Access to information (Final user))

Telemetry Solution

GRD

Middleware

HARDWARE	MIDDLEWARE	SOFTWARE
1 DATA ACQUISITION	**2** COMMUNICATION	**3** ACCESS TO INFORMATION

EXEMYS GRD

GPRS

Cellular Network

Internet

Broadband

Server Telemetry

EXEMYS MIDDLEWARE

Control Software

Data Base

WEB page

SCADA System

propietary Software

Cellular Telemetry benefits:

■ Low cost per measurement point.

■ Simple and economical installation.

■ Real-time Operation

GSM Telemetry Web Server
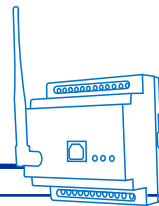
What is a GSM Telemetry Web Server?
It is a powerful computer with Internet access, dedicated exclusively to hosting Cellular Telemetry Applications.

How it works?

With this new server, you can implement immediately, all applications of cellular telemetry, using pre-designed web pages. Just connect sensors to the Exemys GRD Devices, and configure in minutes, your application.
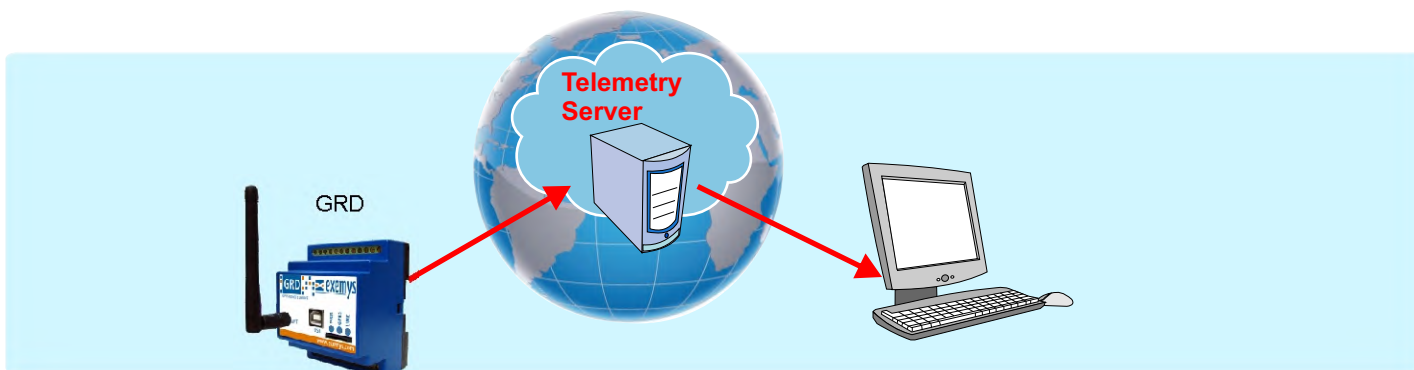
Benefits

• Immediate implementation of applications
• Avoid costly hosting services
• Simple Web access to all field devices
• Robustness and Reliability of a Datacenter

## What kind of applications can be deployed ?

Remote Monitoring
- Water or Fuel tanks
- Grain Silos
- Weather Stations
- Motor-generator power
- Uninterruptible Power Supplies, UPS
- Machines and Processes in general

Remote Control
- Stop valves for oil and gas
- Water Pumps
- Electronic Signs
- Industrial Refrigerators
- Vending Machines
- Programmable Controllers, PLCs
- Remote Terminal, RTUs
- Machines and Processes in general
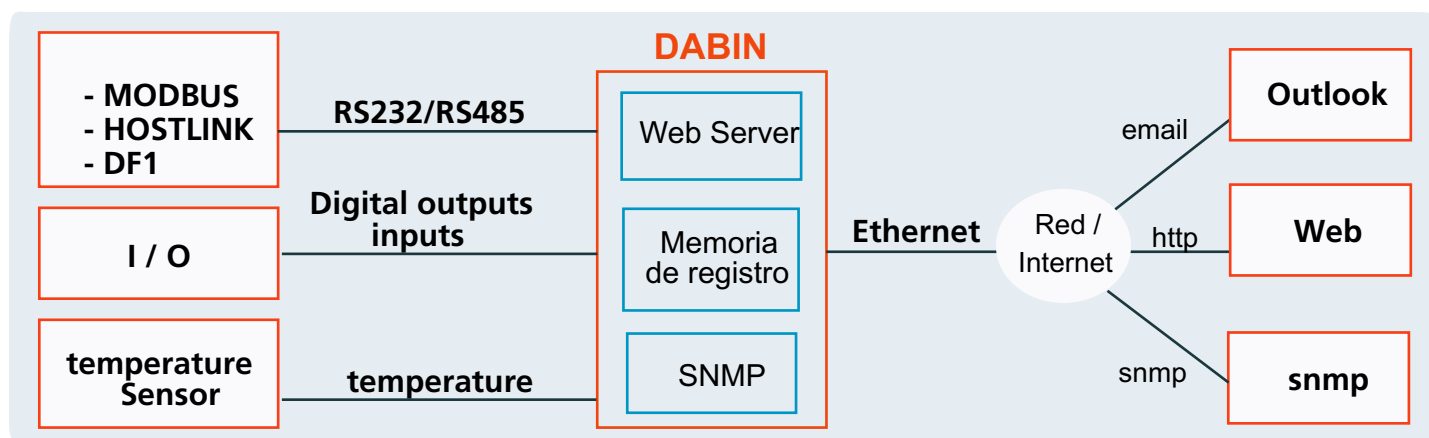
Internet based supervision
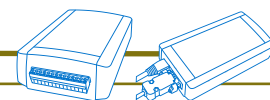
This state-of-the-art, powerful device provides interaction with different electric and electronic equipment through a standard Internet browser
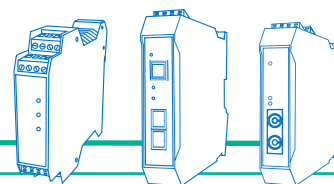
Web Based Supervision

DABin

PART #	SERIAL PORT			INPUTS	OUTPUTS	PROTOCOLS
	RS232	RS485	RS422			
DABin-1C43-ST-MB	1	1	-	4	3	MODBUS RTU / ASCII
DABin-1083-ST-MB	1	-	-	8	3	MODBUS RTU / ASCII
DABin-1083-ST-DF1	1	-	-	8	3	DF1
DABin-1C43-ST-HL	one configurable serial port			4	3	HOSTLINK
DABin-1083-ST-HL	1	-	-	8	3	HOSTLINK

Media Converter

The media converters allow you to transform electrical or optical signals of a certain standard to another.
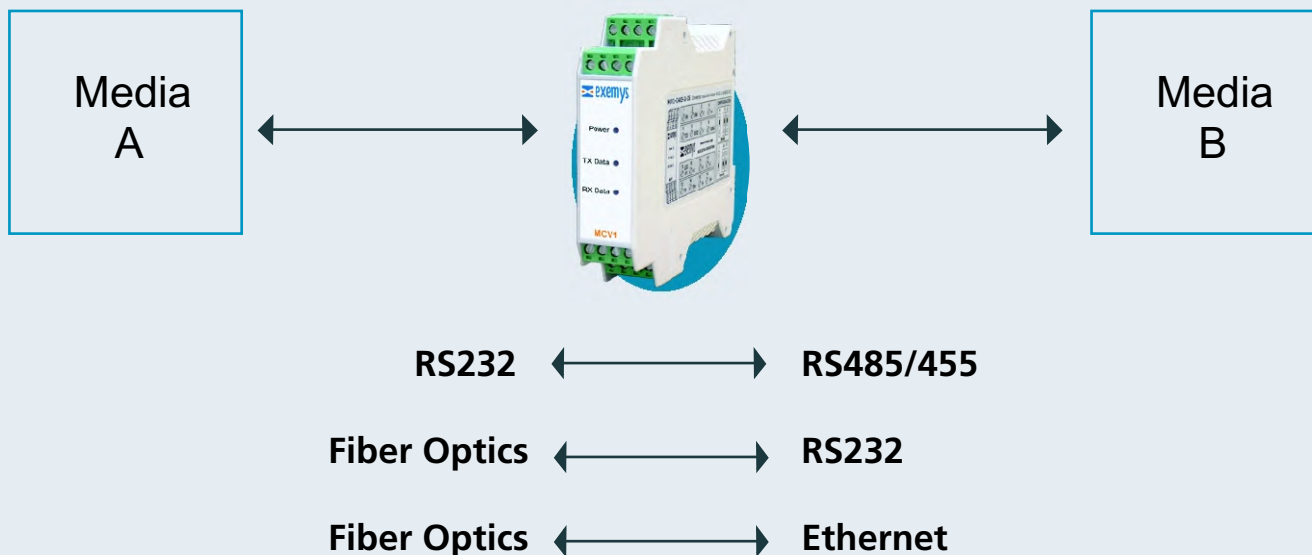
RS232 to RS485/422   Fiber Optics to Ethernet   Fiber Optics to Serial

MCV1   MCV1-FO-ETH   MCV1-FO-SER

Media Converter

| Media A | ⟷ | **Media Converter** | ⟷ | Media B |

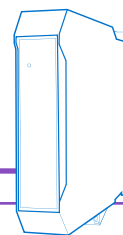RS232 ⟷ RS485/455

Fiber Optics ⟷ RS232

Fiber Optics ⟷ Ethernet

Media Converter benefits:

- ■ Extend local communications over long distances.

- ■ Avoid electrical noise interference during communication.

- ■ Can connect devices to each other, with different communication standards.

Power supplies DC-DC

Exemys DC-DC (power surces) allows to connect electronic devices that requires the isolation of the power surce from critical aplications. Ideal for industrial or comercial purposes.

Power supplies DC-DC

DCEX

ISOLATION		
INPUT VOLTAGES		**OUTPUT VOLTAGE**
12 - 24 - 36 - 48 - 72 (Vdc) Positive or Negative		3.3 - 5 - 7.5 - 10 - 12 - 24 36 - 48 - 52 - 72 (Vdc) Positive or Negative

Power supplies DC-DC benefits:

- Allow to electrically isolate devices from other more critical control and monitoring.

- Avoid electrical noise currents and circulation of mass / earth undue

- Facilitate the conversion of negative to positive sources

exemys

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ISO 9001:2008 CERTIFICATION	**UL 60950 CERTIFICATION**	**EUROPEAN COMMUNITY CE CERTIFICATION**	**SOFTWARE LAW CERTIFICATION**
ANAB ACCREDITED — ISO 9001 BUREAU VERITAS Certification — BUREAU VERITAS 1828 — UKAS QUALITY MANAGEMENT 062	UL LISTED UL60950 16WU	C E	ArgenTIna