

RELIABLE SECURE CONNECTIVITY

XMMS100 Series
MODBUS Protocol Converters





XMM5100 Series

MODBUS Protocol Converters



FEATURE HIGHLIGHTS

- Creating Gateways Between M-BUS and MODBUS Protocols
- Primary Addressing for M-BUS Devices
- Secondary Addressing for M-BUS Devices
- Possibility to Read Multiple M-BUS Devices with a Gateway
- Automatic Association of M-BUS Data with MODBUS Addresses
- User-friendly Software for Configuring Gateway
- Programming with USB Cable
- Upload/Download Program over TCP/IP
- Master/Slave Communication
- Multiple Connectivity
- Auto-Detect Socket Disconnection and Auto-Reconnection
- Remote Firmware Upgrade
- View Status of Device Over Web-Interface



PRODUCT SPECIFICATIONS

Programming	
Programming Editor	Assistant Software
Device Search over Network	Yes
Offline Configuration	Yes
Import/Export Configuration	Yes
M-BUS Port Connection Settings	Yes
Defining M-BUS Devices Poll Frequency	Yes
Primary Address Definitions	Yes
Secondary Address Definitions	Yes
Multiple M-BUS Device Selection	Yes
Integrated Communication Ports	
Ethernet	1 Port, 10/100 Mbps
Integrated GSM/GPRS Modem	1 Port, Quad-Band 850 / 900 / 1800 / 1900 MHz
Wi-Fi	1 Port, IEEE 802.11 b/g/n
M-BUS	1 Port, M-BUS EN1434-3
Serial Ports	1 Port RS485 (3 kV ESD Protection)
USB	1 Port, Mini USB Type B
Communication Protocols	
Master Communication Protocols	MODBUS TCP, M-BUS EN1434-3
Slave Communication Protocols	MODBUS TCP, MODBUS RTU
Maximum Connection Count	
Number of Server Socket	2
Number of Client Sockets per TCP Server Socket	1
Max Number of Meters on M-BUS Port	16
LED Signals	
Power	1 LED Blue
Running Status	1 LED Blue
Error	1 LED Blue
Environmental Conditions	
Operating Temperature	-20 / +75 C
Storing Temperature	-40 / +80 C
Humidity	5..95 RH
Protection Standard	IP20
Operating Altitude	0..2000 m
Electrical Wiring	
Serial Port Inputs	Demountable Terminal Block with Screw, (pitch 3.81 mm)
Power Supply Input	Demountable Terminal Block with Screw, (pitch 3.81 mm)
Supply	
Supply Voltage	9..36 VDC
Supply Current	50 mA @ 24 VDC
Warranty	
Duration	24 Months
Certificates	CE





APPLICATIONS

Applications

- Meter Reading via Serial Number and Slave ID
- Remote Monitoring of Hot and Cold Water Meters Data
- Remote Monitoring of Calorimeter Data
- Remote Monitoring of Gas Meter Data
- Energy Tracking and Billing Systems
- AMR(Automatic Meter Reading) Solutions

Telemetry

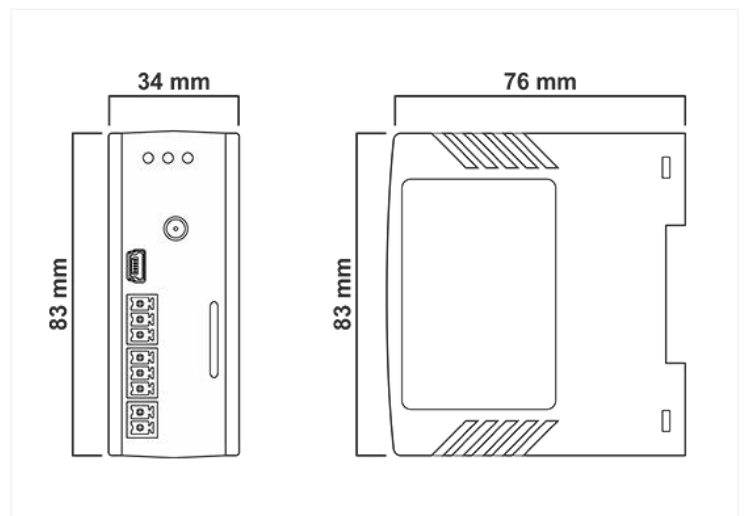
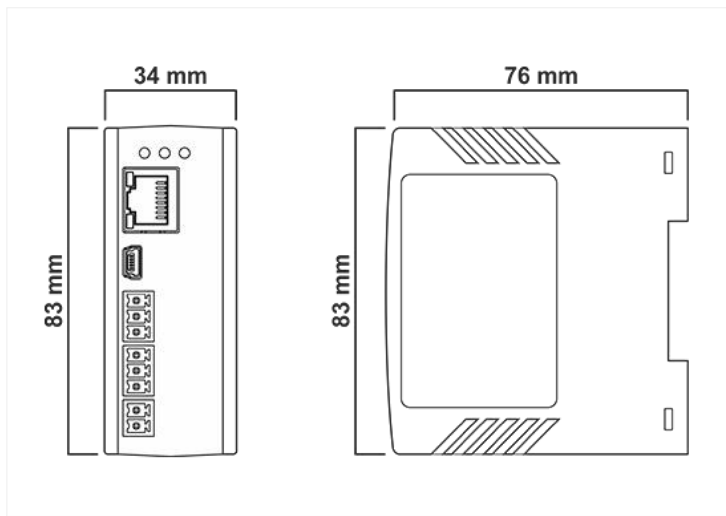
- Master Protocols: MODBUS TCP, M-BUS EN1434-3
- Slave Protocols: MODBUS TCP, MODBUS RTU
- Primary and Secondary Addressing Support

Some Supported Meter Models

- Actaris
- Baylan



DIMENSIONS & LAYOUT



ORDER INFORMATION

Product Code	GSM/Ethernet/WI-FI	M-BUS	RS232	RS485	USB	Meter Count
XMMS100E.2	Ethernet	1	.	1	1	2
XMMS100E.8	Ethernet	1	.	1	1	8
XMMS100E.16	Ethernet	1	.	1	1	16
XMMS100G.2	GSM	1	.	1	1	2
XMMS100G.8	GSM	1	.	1	1	8
XMMS100G.16	GSM	1	.	1	1	16
XMMS100W.16	WI-FI	1	.	1	1	16





WHO WE ARE

Built on 20 years of experience in designing and manufacturing industrial networking products, **Agatel** was established from the UK to serve the infrastructure and industrial sectors in EMEA markets with reliable connectivity for mission-critical systems in demanding environments.

Experienced in hardware and software design and integration, we produce high-quality yet cost-effective industrial networking and communication products with great customization capabilities and robust implementations, equipping our customers for reliable secure industrial networks.



WHAT WE OFFER

The needs of our customers' industry are different from those of corporate IT environments – industrial operating environments are tough and the impact of failure in the field can lead to business threatening situations, hence our products will have lifetimes in excess of 20 years.

From entry-level to high-performance industry-certified hardware, **Agatel** offers a full solution spectrum to suit our customers' budgets and application requirements, with features such as industrial-grade reliability, integrated security, network redundancy, and advanced performance.

Our product solution profile includes industrial Ethernet switches, network time servers, media converters, industrial wireless devices, and serial device servers, covering a wide array of mission-critical applications such as automation, security, transport, water, oil and gas, and power grids.



WHY CHOOSE US

We help our customers reduce downtime and operational costs of their industrial applications in harsh environments. Leading system integrators in EMEA rely on our niche technical expertise and product quality to increase their applications' robustness, revenues, and competitive differentiation.

Agatel ruggedized high-quality solutions are designed to deliver zero-network-downtime for harsh project demands, allowing for reliable connectivity to keep people and assets safe and secure in harsh and hazardous environments, and allowing customers to focus on growing their business.

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