

# MOX Field Gateway

## MX602-3212

### DATA SHEET

## MOX Communications Gateway Controller provides protocol conversion and data transfer between leading industry protocols.

### Functional Overview

The MOX Communications Gateway Controller is a leading edge remote systems controller designed to interface with field devices and control equipment via many of the leading communications methods available. The final solution is Enterprise ready allowing data from your remote sites to seamlessly flow into your integrated SCADA solution. The MOX Gateway utilizes open communications options to allow quick integration into your existing system.

Comprehensive functions are available for configuration and ongoing diagnostics. Certain device conditions and transmission errors may be displayed on front panel LEDs. Further diagnostic functions, especially for testing the fieldbus communications, may also be carried out directly from the configuration software.

### Application

The MOX Gateway may be utilized in traditional industries where specialized instrumentation is communicating on specific protocols. However, the capability and application usage of the MOX Gateway extends way beyond the traditional boundaries. The MOX Gateway controller provides protocol conversion between many of the leading fieldbus systems and industry standards. It will also interface to remote I/O and other field devices via the Ethernet and serial ports.



DeviceNet

ControlNet  
InternationalPROFI  
BUS

CANopen



Modbus Plus



### Features

128MB DDR RAM

256MB Flash

ARM 400MHz CPU

Two high speed 10/100 Ethernet port

Integrated and transportable IEC61131 control software

Numerous onboard gateway communications options



The MOX Gateway provides most of the functionality of the MOX Unity Field Controller with additional communications options, making it a truly open systems controller.

## Ordering Information

MOX Gateway	Main Feature	Part Number
Gateway - PROFIBUS DP Master	2x Isolated RS485, 1x RS232 Ports, 2x Ethernet, 128MB DDR RAM, 256MB RAM, ARM 400MHz CPU, PROFIBUS DP Master	MX602-3212-01
Gateway - PROFIBUS DP Slave	2x Isolated RS485, 1x RS232 Ports, 2x Ethernet, 128MB DDR RAM, 256MB RAM, ARM 400MHz CPU, PROFIBUS DP Slave	MX602-3212-02
Gateway - ControlNET	2x RS485, 2x Ethernet, 500MHz x86 CPU, ControlNET	MX602-3212-03
Gateway - PROFINET Master	2x Isolated RS485, 1x RS232 Ports, 2x Ethernet, 128MB DDR RAM, 256MB RAM, ARM 400MHz CPU, PROFINET Master	MX602-3212-04
Gateway - PROFINET Slave	2x Isolated RS485, 1x RS232 Ports, 2x Ethernet, 128MB DDR RAM, 256MB RAM, ARM 400MHz CPU, PROFINET Slave	MX602-3212-05
Gateway - EtherNet/IP Master	2x Isolated RS485, 1x RS232 Ports, 2x Ethernet, 128MB DDR RAM,	MX602-3212-06
Gateway - EtherNet/IP Slave	2x Isolated RS485, 1x RS232 Ports, 2x Ethernet, 128MB DDR RAM,	MX602-3212-07

MOX Field Gateway Capability	
Required supply voltage	18-30VDC
Typical power consum.(work)	3W (Base System)
Standard Protocols	Modbus, Modbus/TCP, DNP3 Level2, IEC60870-5-101, IEC60870-5-104
PROFIBUS DP Master	
PROFIBUS Interface	RS485 Optically Isolated DSub-Female 9pin
Diagnostic Interface	RS232 Non-Isolated DSub-Male 9pin
Max Number of Slaves	125
Bytes per Slave	244
Transmission Rate	9.6kBaud - 12MBaud
Interbus Master	
Interbus Interface	RS422 Optically Isolated DSub-Male 9pin
Diagnostic Interface	RS232 Non-Isolated DSub-Male 9pin
Diagnostic Interface	RS232C Non-Isolated
Max Input Data	512 Byte
Max Output Data	512 Byte
Transmission Rate	500kBaud

DeviceNet	
Interface	ISO 11898 Optically Isolated CombiCon 5 pin
Diagnostic Interface	RS232C Non-Isolated DSub-Male 9pin
Messaging	Explicit Peer to Peer
Transmission Rate	500kBaud
ControlNet	
ControlNet Interface	Redundant Bus Interface 2x BNC
Network Access Port Interface	RS422 Non-Isolated RJ45
Max Input Data	480 Byte
Max Output Data	480 Byte
Transmission Rate	5 Mbaud
CANOpen	
Interface	ISO 11898 Optically Isolated DSub-Male 9pin
Diagnostic Interface	RS232C Non-Isolated DSub-Male 9pin
Max Number of Nodes	127
Messaging	Explicit Peer to Peer
Transmission Rate	10kBaud - 1MBaud

AS-Interface	
AS-Interface	Optically Isolated 2x CombiCon 2pin
Diagnostic Interface	RS232 Non-Isolated DSub-Male 9pin
Number of Channels	2
Max Number of Slaves	62
Max Input Data	248 bit per channel
Max Output Data	186 bit per channel
Transmission Rate	167kBaud
Modbus Plus	
Modbus Plus Interface	DSub-Female 9 Pin supports Standard Modbus Plus pinouts
Maximum Devices	64 Local Addresses, routable across multiple networks
	Supports full 5 drop Routing of Modbus Plus
Messaging	Modbus Command Set
Transmission Rate	1.0M Baud
Mechanical Characteristics	
Operating temperature range	-20 to 70°C
Storage temperature range	-40 to 85°C
Humidity (non-condensing)	0-90%
Weight	1.2kg Max



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