

Model Information



■ Features

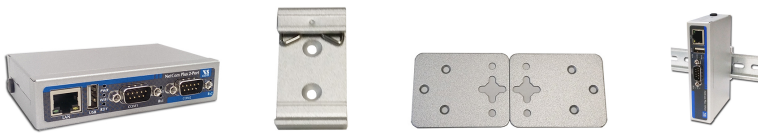
- Controls 2 Modbus lines located virtually anywhere via Ethernet, WLAN or Internet
- GigaLAN 10/100/1000 Ethernet
- Configuration over WEB Browser
- Supports Modbus Master Multiplexing
- Supports TCP/IP, DHCP, ICMP, HTTP, DNS
- Supports ART (Automatic Receive Transmit control)
- RS232/422/485 interface selected by Software
- Optional: Wireless network IEEE 802.11b/g/n

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ModGate Plus 213

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■ More Pictures



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■ Overview

The Modgate Plus (or Modgate+) are easy to use Gateways from Modbus/TCP on Ethernet or WLAN to Modbus/RTU or Modbus/ASCII on the serial ports. Modgate+ 213 connects two Modbus serial lines to a network running TCP/IP. Metal case, wide temperature range and flexible DC power supply classify the Modgate+ as industrial-strength devices. They are based on a state-of-the-art RISC processor, to provide cost-effective design and low power consumption.

Using TCP/IP the Modgate+ operate without limitations on distance or OS platform, the Gateways are usable via Internet and VPN connections. The serial port is configured for Modbus/ASCII or Modbus/RTU and physically set to RS232, RS422 or RS485 operation. The messages received on the network are sent to the serial line, messages from the serial port are sent via network. Modgate+ automatically adjusts as Master or Slave on the serial port.

Modbus Master Multiplexing is implemented as an extension to the standard. Several masters connect to Modgate+ by Modbus/TCP, slaves on serial lines may answer requests from multiple masters.

The configuration of Modgate+ is done via browser. The user interface is based on Web 2.0 to provide an easy handling of the options. UPnP provides a simple and standard way to find the Gateway in the network.

Modgate+ devices can be ordered with an embedded module for WLAN 802.11b/g/n.

■ Interface

Ethernet interface

Auto-detecting 10BaseT/100BaseTx/1000BaseT (GigaLAN)
Connector 8P8C (RJ45)

Wireless interface

Optional, uses IEEE 802.11b/g/n as Access Point or Client
Embedded module or USB expansion available

Protocols	TCP/IP, DHCP, ICMP, HTTP, DNS, UDP, UPnP/SSDP, Modbus/TCP, Modbus/RTU, Modbus/ASCII
Serial interface	RS232/422/485 selected by software
No. of port	2x DSUB 9 male connector (as PC)
Available Modes	<ul style="list-style-type: none"> • RS232 full duplex • RS422 full duplex • RS485 4 wire, full duplex • RS485 2 wire, half duplex
Signals	<ul style="list-style-type: none"> • RS232: TxD,RxD, RTS,CTS, DTR,DSR, DCD, RI, GND • RS422: Tx+/-, Rx+/-, GND • RS485 2 wire: Data+/-, GND • RS485 4 wire: Tx+/-, Rx+/-, GND
RS485 Data control	Controlled by ART (Automatic Receive Transmit control)
Expansion port	USB 2.0 High Speed, for WLAN

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■ Serial Performance

Speed	up to 115.2 kbps for Modbus RS232: up to 1000 kbps, RS422/485: up to 3.7Mbps
Parity	None, even, odd, mark, space
Data bits	7, 8
Stop bits	1, 2

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■ Operating Modes

Modbus RTU/ASCII	Modbus RTU or Modbus ASCII protocol selected for each serial port individually
DirectMappingMode	Direct mapping of Modbus addresses to serial ports or TCP connections
PromiscuousMode	Mapping of serial ports to TCP connections

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■ Power and Environment

Connector	3-pin Terminal Block with Protective Earth
Power requirements	9 - 54V DC, 0.3A @ 12V, 4W
Dimension	115×73×25 mm ³ (W×L×H)
Operating Temp	-20°C - 65°C
Storage Temp	-20°C – 85°C
Case	SECC sheet metal (1mm)
Weight	0.25kg
Mounting	<ul style="list-style-type: none"> • DIN Rail • Wall mount

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■ Special Features

Installation	DIP switches set a defined temporary IP Address to contact via WEB Browser
	Promiscuous Mode Messages received from the network are sent to defined serial ports, messages from the serial port are sent to defined connected network host.

Operating mode	<p>Mapped Mode</p> <p>Received messages are scanned for their target address. This address is found in a table, the message is sent to the defined connection (serial or TCP).</p>
Modbus Master Multiplexing	<p>An extension to the standard. Slaves on serial lines may answer requests from multiple masters. The masters connect to ModGate+ by Modbus/TCP.</p>
Configuration	<p>Configuration over WEB Browser</p>
Detection	<p>Announces presence in the network via Universal Plug and Play (UPNP) protocol</p>
DNS	<p>Domain Name Server support</p>
Serial Interface	<p>Serial Interface configurable by software This also enables internal Termination for RS485</p>
Firmware	<p>Firmware update over WEB Browser</p>
LEDs	<p>LEDs for Power, Ready, WLAN, serial Tx, Rx, Ethernet Link, Speed</p> <p style="text-align: right;">>Back to top</p>
■ Security	
Password access	<p>Webinterface is password protected. The password can be changed in the Webinterface.</p> <p style="text-align: right;">>Back to top</p>
■ Ordering Information	
6720	<p>ModGate Plus 213 (2x RS232/422/485)</p> <p style="text-align: right;">>Back to top</p>
■ Options	
6689	<p>WLAN Kit internal internal module 802.11b/g/n, pigtail and antenna Purchase time option, not for later retrofitting</p>
6690	<p>WLAN Kit external USB stick 802.11b/g/n, antenna</p>
6031	<p>Power supply adapter 12V DC, 1A</p>
661	<p>Serial Null-Modem adapter 9PF-9PF, change male to female</p>
6692	<p>DK-NCP DIN-Rail mounting kit</p>
6693	<p>WK-NCP Wallmount kit</p> <p style="text-align: right;">>Back to top</p>
■ Packaging	
Packing list	<ul style="list-style-type: none"> ● ModGate Plus 213 ● Terminal block for Power Supply ● CD-ROM with user manual <p style="text-align: right;">>Back to top</p>

ModGate Plus 213

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DIN-Rail Mounting Kit

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Wall Mounting Kit

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**ModGate Plus 113 on DIN-Rail,
ModGate Plus 213 is similar**

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