



[Zoom in Picture](#)

■ **Features**

- Controls 1 Modbus line located virtually anywhere via Ethernet or Internet
- LAN interface 10BaseT/100BaseTx Ethernet
- Configuration over WEB Browser
- Supports TCP/IP, DHCP, ICMP, HTTP, DNS
- Supports ART (Automatic Receive Transmit control)
- RS232/485 interface selectable by Software

# ModGate 113

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■ **Overview**

Modgate 113 is an industrial-strength Modbus-Network gateway for connecting one Modbus line to a network running TCP/IP. It operates without platform and distance limitation.

ModGate 113 uses Modbus/TCP for communication on the network. The serial port is configured for Modbus/ASCII or Modbus/RTU, while the serial line is physically set for RS232 or RS485. The messages received on the network are sent to the serial line, messages from the serial port are sent via network.

The configuration of ModGate 113 is done via HTTP. The user interface is based on Web 2.0 to provide an easy handling of the options. Besides typical serial parameters the configuration includes RS232/485 for serial physical parameters. Further a Modbus address mapping table is available, defining a target port for a certain Modbus address.

ModGate devices are available with up to 8 serial ports, optional also with WLAN plus Ethernet.

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■ **Application**

- Industrial / Factory / Laboratory automation
- Automatic warehouse control system
- Wafer fabrication system
- SCADA system
- Building automation system

■ **Hardware**

<b>Processor</b>	ARM 9 166 MHz
<b>I/ O controller</b>	16C950 or compatible
<b>Memory</b>	16MB SDRAM, 2 MB Flash
<b>Connector type</b>	DSUB 9 male for serial Port RJ45 for Ethernet

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■ **Interface**

<b>Ethernet interface</b>	Auto-detecting 10BaseT/100BaseTx
<b>Protocols</b>	TCP/IP, DHCP, ICMP, HTTP, DNS
<b>Serial interface</b>	RS232/485 selected by software
<b>No. of port</b>	1, Speed up to 115200 bps

<b>Available Modes</b>	RS232 full duplex RS485 2-wire, half duplex, without echo
<b>Signals</b>	RS232: TxD,RxD, RTS,CTS, DTR,DSR, DCD, RI, GND RS485: 2 wire Data+/-, GND
<b>RS485 Data control</b>	Controlled by ART (Automatic Receive Transmit control) <a href="#">&gt; Back to top</a>
<b>■ Performance</b>	
<b>Speed</b>	Up to 115200 bps
<b>Parity</b>	None, even, odd
<b>Data bits</b>	7, 8
<b>Stop bits</b>	1, 2
<b>IRQ</b>	None
<b>I/ O address</b>	None <a href="#">&gt; Back to top</a>
<b>■ Operating Modes</b>	
<b>Modbus RTU/ ASCII</b>	Modbus RTU or Modbus ASCII protocol selected for each serial port individually
<b>DirectMappingMode</b>	Direct mapping of Modbus addresses to serial ports or TCP connections
<b>PromiscuousMode</b>	Mapping of serial ports to TCP connections <a href="#">&gt; Back to top</a>
<b>■ Power and Environment</b>	
<b>Power requirements</b>	9 - 30V DC, 500mA @ 12V
<b>Power supply Adapter</b>	12V DC, 1A. Connected by Terminal block
<b>Dimension</b>	73×115×27 mm <sup>3</sup> (W×L×H) 101×121×27 mm <sup>3</sup> with DB9 connector and DIN rail mounting kit
<b>Operating Temp</b>	0°C - 55°C
<b>Storage Temp</b>	-20°C – 85°C
<b>Case</b>	SECC sheet metal (1mm)
<b>Weight</b>	0.2kg <a href="#">&gt; Back to top</a>
<b>■ Special Features</b>	
<b>Installation</b>	Dip switches set a defined temporary IP Address to contact via WEB Browser
<b>Operating mode</b>	Promiscuous Mode Messages received from the network are sent to the serial port, messages from the serial port are sent to the connected network host. Mapped Mode 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).
<b>Configuration</b>	Configuration over WEB Browser
<b>ART</b>	Automatic Receive Transmit control for RS485
<b>DNS</b>	Domain Name Server support
<b>Serial Interface</b>	Serial Interface configurable by software
<b>Firm ware</b>	Firmware update over WEB Browser
<b>LEDs</b>	LEDs for Power, serial Tx, Rx, Ethernet Link, Speed

## ■ Security

### Password access

Webinterface is password protected. The password can be changed in the Webinterface.

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## ■ Ordering Information

### Art.No

6700

### Product Name

ModGate 113

### Packing list

ModGate 113  
Power supply adapter 12V, 1000mA  
CD-ROM with user manual

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## ■ Optional Accessories

### [DK 35A](#)

DIN-Rail mounting kit

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■ Full size product image



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