

ModGate 113

1 port industrial modbus gateway

HARDWARE	
Processor	ARM 9 166 MHz
I/O controller	16C950 or compatible
Memory	16MB SDRAM, 2 MB Flash
Connector type	RJ45 for Ethernet, DSUB 9 male for serial Port
INTERFACE	
Ethernet interface	Auto-detecting 10BaseT/100BaseTx
Protocols	TCP/IP, DHCP, ICMP, HTTP, DNS
Serial interface	RS232/485 selected by software
No. of port	1, Speed up to 115200 bps
Available Modes	RS232 full duplex; RS485 2 wire, half duplex, with echo
Signals	RS232: TxD,RxD, RTS,CTS, DTR,DSR, DCD, RI, GND; RS485: 2 wire Data+/-, GND
RS485 Data control	Controlled by ART (Automatic Receive Transmit control)
PERFORMANCE	
Speed	Up to 115200 bps
Parity	None, even, odd
Data bits	7, 8
Stop bits	1, 2
IRQ	None
I/O address	None
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
POWER and ENVIRONMENT	
Power requirements	9 - 30V DC, 500mA @ 12V
Power supply Adapter	12V DC, 1A. Connected by Terminal block
Dimension	73 x 115 x 27 mm (W×L×H); 101 x 121 x 27 mm with DB9 connector & DIN rail mounting kit
Operating Temp	0°C - 55 °C
Storage Temp	-20°C - 85°C
Case	SECC sheet metal (1mm)
Weight	0.2kg
SPECIAL FEATURES	
Installation	Dip switches set a defined temporary IP Address to contact via WEB Browser
Operating mode	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).
Configuration	Configuration over WEB Browser
ART	Automatic Receive Transmit control for RS485
DNS	Domain Name Server support
Serial interface	Serial Interface configurable by software
Firmware	Firmware update over WEB Browser
LEDs	LEDs for Power, serial Tx, Rx, Ethernet Link, Speed

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.

SECURITY	
Password access	Webinterface is password protected. The password can be changed in the Webinterface.
Approvals	
EMC	FCC Class A, CE Class A
Environment	RoHS
ORDERING INFORMATION	
Art.No	6700
Product Name	ModGate 113
Packing list	ModGate 113 Gateway Power supply adapter 12V, 1000mA CD-ROM with user manual
Optional Accessories	DK-35A DIN-Rail mounting kit

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