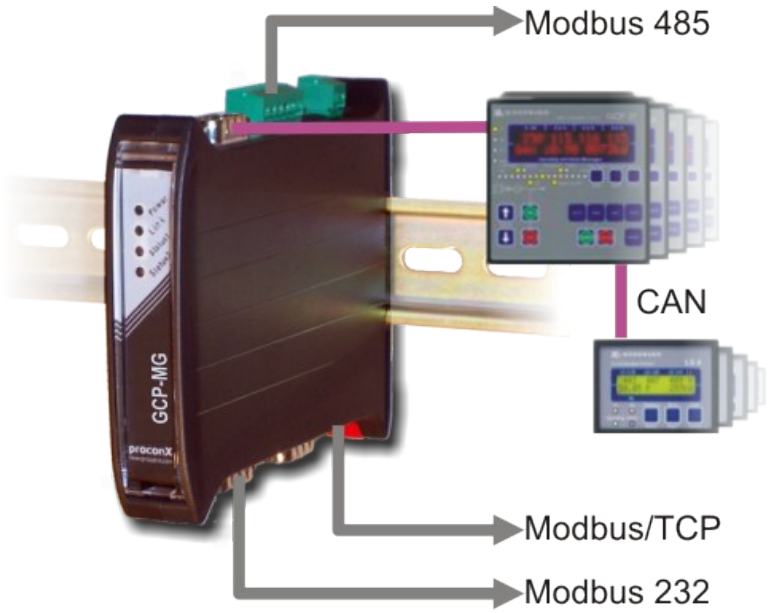
# GCP-MG

## Ethernet Modbus gateway for Woodward GCP genset controls and LS 4 controls

Ethernet Modbus GCP-31/32 GCP-20/21/22 LS 4

## Features

- Modbus/TCP (Ethernet)
- Modbus RTU (RS-232 or RS-485, software configurable)
- Up to 16 GCP and 8 LS 4
- Full support of option SB03 (Cat CCM) and option SC06 (MTU MDEC)
- GW4 backward compatible Modbus register layout
- Dedicated Modbus slave ID for each GCP and LS 4 control
- Complete data set of one GCP unit can be read with a single Modbus transaction
- Integer/Exponent value pairs for voltages, power and currents are additionally represented as 32-bit floating point registers
- Support of Modbus function codes 03, 04, 06 and 16
- Concurrent Modbus serial line and Modbus/TCP connection
- Embedded web server for easy configuration and commissioning using a web browser
- Firmware upgradeable via Ethernet




**GCP-MG** is a next-generation **Modbus/CAN** gateway specifically designed to interface **Woodward**'s **GCP-30** series genset controls **GCP-31, GCP-32, GCP-20, GCP-21, GCP-22** and **LS 4** circuit breaker controls with Modbus networks. The GCP-MG gateway has been developed in cooperation with Woodward to ensure the highest possible degree of interoperability with Woodward equipment.

The gateway features **CAN**, serial **RS-232** and **RS-485** ports as well as an **Ethernet** port and can be mounted on a DIN rail. On the CAN side it implements the Woodward CAL protocol to connect to the GCP controls. On the serial ports and on Ethernet it implements a Modbus server (Modbus RTU and Modbus/TCP) and accepts connections from Modbus master devices like PLCs and SCADA systems.

Usage and configuration of the gateway is simple and conveniently performed using a web browser which connects to the embedded web server.

Possible Applications:

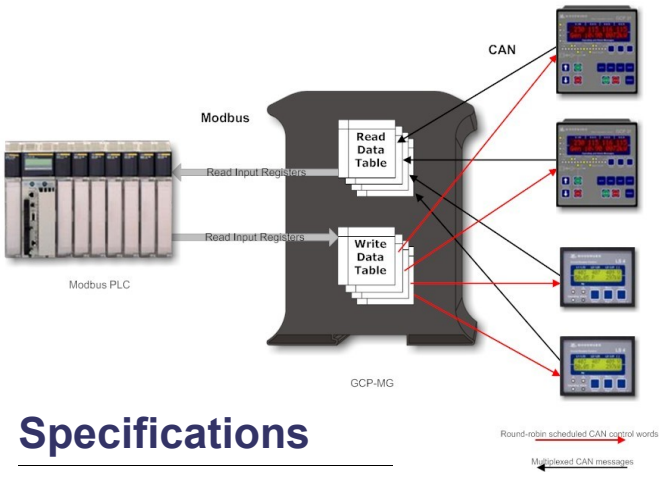
- PLC connection
- Operator panel interfacing
- HMIs
- SCADA integration
- Power station automation
- Gen set control
- Remote control & monitoring
- Data logging

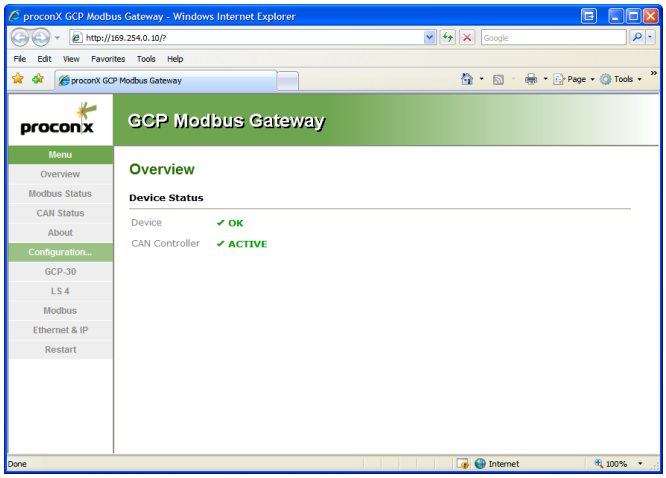
# GCP-MG

## Order information

| Model number | Configuration |
|---|---|
| **GCP-MG – 0 0 0** | GCP-MG gateway with Ethernet, RS-232, RS-485, CAN interfaces in DIN rail enclosure |

## Usage




## Specifications

### Interfaces

1 Ethernet
2 Serial ports
  – 1 RS-232 or RS-485 Modbus, software configurable
  – 1 RS-232 Diagnostics
1 CAN

### User interface

- Power, Ethernet, Device & Modbus/CAN Status LEDs
- Web browser interface for Monitoring & Configuration

### Ethernet port

- IEEE 802.3i 10BASE-T (half-dplx)
- Modbus/TCP Slave (2 concurrent connections)
- IP, TCP, HTTP, ARP, TFTP
- 1.5 kV galvanic isolation

### RS-485 Modbus port

- EIA-485-A, 2-wire
- 300-115200 bps
- Up to 32 nodes
- Modbus RTU Slave protocol

### RS-232 Modbus port

- EIA-232-F DTE
- DE9M with EIA-574 pinout
- 300-115200 bps
- Modbus RTU Slave protocol

### CAN port

- DE9M with CiA DS-102 pinout
- ISO 11898 physical layer
- 125 kBit/s
- Max. 64 nodes
- CAL 2.0 protocol

### Power requirements

- 10-30 V DC, 750 mW
- 30 mA typical @ 24 V DC

### Environment

- 0° to 60 °C / 32 to 140 °F operating temperature
- -25° to 80 °C / -13 to 185 °F storage temperature
- 10 to 95% humidity, non-condensing

### Form factor / enclosure

- Self-extinguishing PC/ABS (UL 94-V0)
- 35 mm DIN rail mountable
- IP 20 / NEMA Type 1
- 101 x 22.5 x 120 mm / 3.98 x 0.886 x 4.72 in
- 0.13 kg / 0.287 lbs

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