



GW 4

Gateway Interface Converter

APPLICATIONS

The Gateway GW 4 interface converter is used to convert the CAN bus protocol to one of several available bus or interface protocols. A single GW 4 connected to the CAN network will transmit data from the available controls on the network to an external device, such as a PC or PLC. Up to 8 Woodward control GCP-20/30 or MFR 2/3 units can be connected as well as up to 7 LS 4 circuit breaker controls. Please see the individual control product manuals for a listing of the particular addresses that will be transmitted.

The GW 4 adjusts not only the physical interface but also the transmission protocols with their frequently differing operations, data formats, and transmission rates. Thus it is possible to view the data with an HMI package as well as configure a broad range of Woodward controls by using the LeoPC software program.

The following is a list of hardware and software/protocols currently developed for the GW 4 Gateway. Additional protocols could possibly be developed upon request. Please consult your Woodward sales branch.

From/To → CAN bus (CAL 2.0)

To/From → RS232
 → RS422
 → RS485
 → TTY
 → MOD bus Slave
 → CAN bus (CAL 2.0)
 → Profibus DP Slave
 → Modem

→ others upon request

DESCRIPTION

Features

- Converting from CAN bus (CAL2.0) to one of the industry accepted protocols (please see table at the end)
- Setting of various interfaces, buses, and protocols
- Transmission of process data of an autonomous network coupled via CAN bus
- Intervention into processes using a PC, a PLC or a control system
- Amplifier serving to bridge large sections in popular networks
- Visualization of the process image
- Remote configuration of named Woodward units and devices
- Interface to the Leo PC software program used for configuration, visualization, remote control, data logging, event recorder, and user management
- Two-line LC display
- Metallically insulated between networks

For wiring diagrams and complete list of parameters please request the GW 4 technical manual.

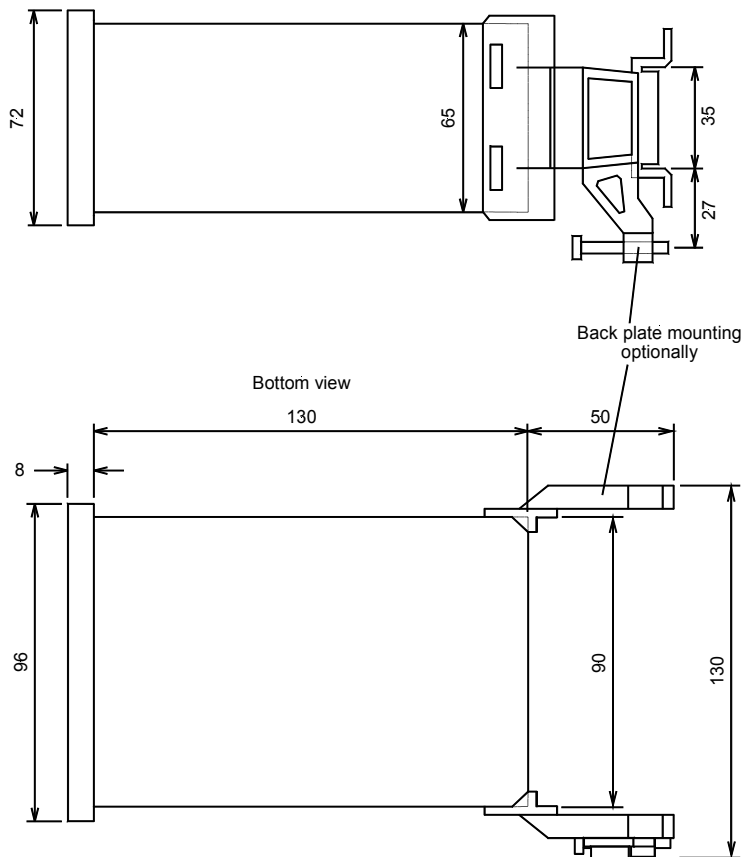
- Interface converter for several interface types using different hardware
- Data converting from CAN (CAL 2.0) to
 - RS232
 - RS422
 - RS485
 - TTY
 - MOD bus RTU Slv.
 - Siemens DK3964
 - Profibus DP Slave
 - Modem
 - others upon req.
- PC and front panel configurable
- UL/cUL Listed

SPECIFICATIONS

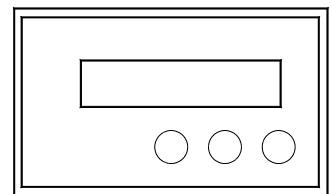
Power supply 24 Vdc (18..32 Vdc)
 Intrinsic consumptionmax. 12 W
 Ambient temperature-20..70 °C
 Ambient humidity 95 %, non-condensing

HousingType APRANORM DIN 43 700
 Dimensions..... 96×72×130 mm
 Front cutout 91×67 mm
 Connection screw/plug terminals depending on connector 1.5 mm² or 2.5 mm²
 Front..... insulating surface
 Protection system.....IP 21
 Weight depending on version, approx. 800 g
Disturbance test (CE)..... tested according to applicable EN guidelines

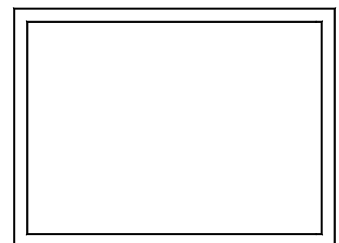
DIMENSIONS



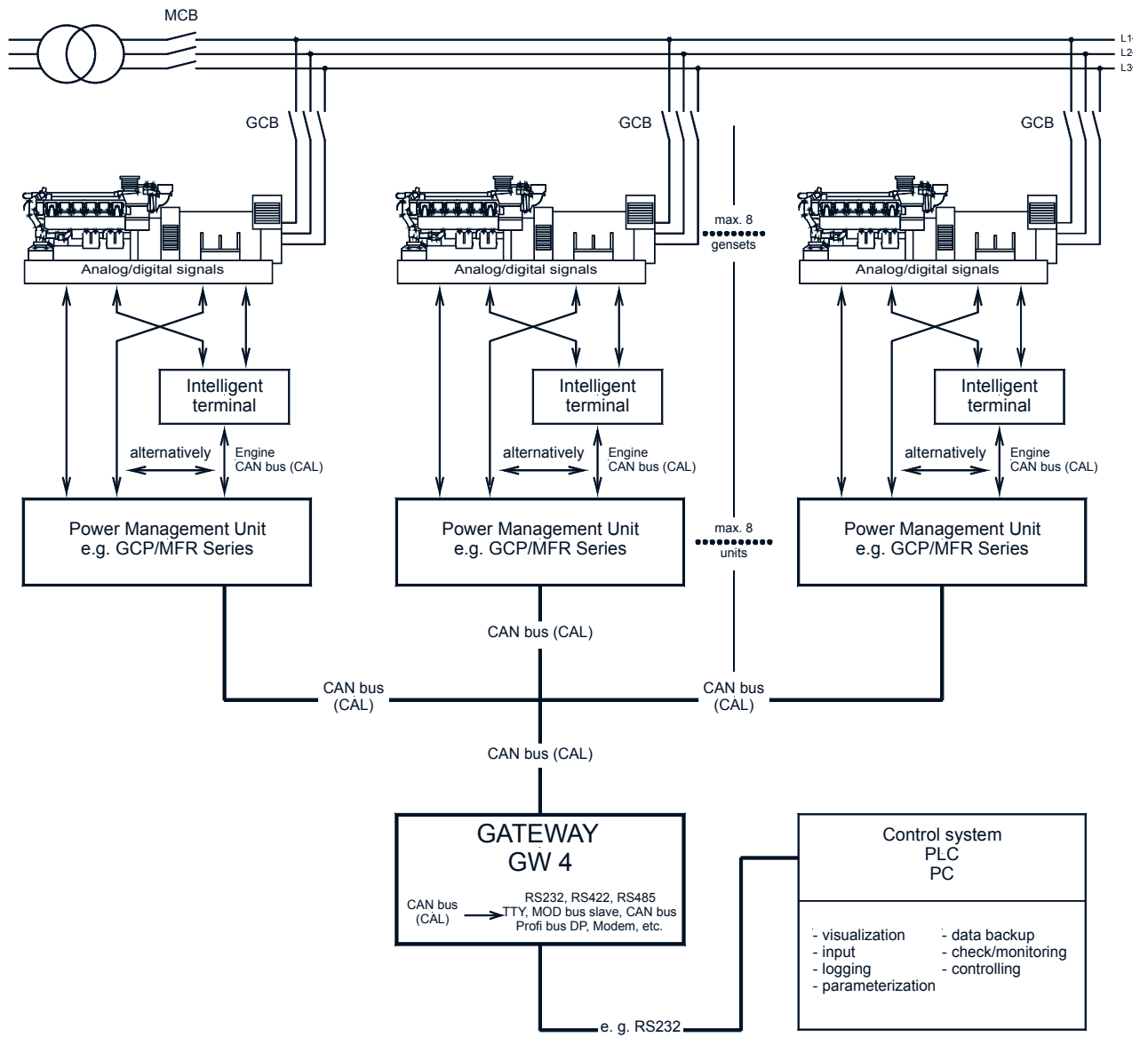
Front view



- Back view -
connecting terminals
depending on the existing hardware



APPLICATION EXAMPLE



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SYSTEM OVERVIEW

Hardware	Order Code	Software and Protocol			
		MOD bus RTU slave	Profibus DP Slave	Siemens DK3964 (R) with Interpreter RK512	Leonhard-Data-Protocol → LeoPC
		MOD	---	DKR	LDP
RS232	232	②	✗	●	●
RS422	422	②	✗	●	●
RS485	485	●	✗	✗	●
TTY	TTY	②	✗	●	●
Profibus DP	PRO	✗	●	✗	✗
Modem	MDM	✗	✗	✗	●

● possible; ✗ not possible; ② up to 2 stations can be connected

TYPE OVERVIEW

Type					
Mounting [B] = flush-mounting; (for DIN-rail mounting please order a set of brackets; this can be mounted easily using the attached description; P/N 8923-1023)					
Hardware					
Software/transmission protocol					
in case of a TTY interface (Sa = sender active)					
Complete order context					
GW 4	B/	232	MOD		→ GW 4B/232/MOD
GW 4	B/	TTY	DKR	Sa	→ GW 4B/TTY/DKR/Sa
GW 4	B/	PRO			→ GW 4B/PRO
GW 4	B/	422	DKR		→ GW 4B/422/DKR
GW 4	B/	MDM			→ GW 4B/MDM

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