

GW 4 Gateway / Interface Converter



Operation Manual Software Version 2.0xxx

Manual 37133E

WARNING

Read this entire manual and all other publications pertaining to the work to be performed before installing, operating, or servicing this equipment. Practice all plant and safety instructions and precautions. Failure to follow instructions can cause personal injury and/or property damage.

The engine, turbine, or other type of prime mover should be equipped with an overspeed (overtemperature, or overpressure, where applicable) shutdown device(s), that operates totally independently of the prime mover control device(s) to protect against runaway or damage to the engine, turbine, or other type of prime mover with possible personal injury or loss of life should the mechanical-hydraulic governor(s) or electric control(s), the actuator(s), fuel control(s), the driving mechanism(s), the linkage(s), or the controlled device(s) fail.

Any unauthorized modifications to or use of this equipment outside its specified mechanical, electrical, or other operating limits may cause personal injury and/or property damage, including damage to the equipment. Any such unauthorized modifications: (i) constitute "misuse" and/or "negligence" within the meaning of the product warranty thereby excluding warranty coverage for any resulting damage, and (ii) invalidate product certifications or listings.

CAUTION

To prevent damage to a control system that uses an alternator or battery-charging device, make sure the charging device is turned off before disconnecting the battery from the system.

Electronic controls contain static-sensitive parts. Observe the following precautions to prevent damage to these parts.

- Discharge body static before handling the control (with power to the control turned off, contact a
 grounded surface and maintain contact while handling the control).
- Avoid all plastic, vinyl, and Styrofoam (except antistatic versions) around printed circuit boards.
- Do not touch the components or conductors on a printed circuit board with your hands or with conductive devices.



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Important definitions



WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation that, if not avoided, could result in damage to equipment.



NOTE

Provides other helpful information that does not fall under the warning or caution categories.

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Revision History

Rev.	Date	Editor	Changes
NEW		Tr	Release
А	03-01-30	Tr	Update
В	04-12-14	TP	New format; GW 4/422 and GW 4/TTY added
С	05-09-20	TP	Application restrictions and data assignment table added
D	07-03-29	TP	Minor corrections
Е	08-11-25	TE	Minor corrections



NOTE

This manual will not be updated anymore. Refer to the GW 4 Packages manual 37360 for more recent information about the GW 4 unit.

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Chapter 1. General Information

Related Documents

Туре		English	German
Gateway GW4			
GW 4 – Manual	this manual ⇒	37133C	GR37133C

Table 1-1: Manual - overview

Overview

This operation manual describes the following types of the Gateway GW 4:

- GW 4/232
- GW 4/422
- GW 4/TTY
- GW 4/485
- GW 4/232/MDM02+LDP
- GW 4/PRO

Please refer to the name plate of your Gateway GW 4 to establish the correct type. The different units allow different protocols. They depend on the used hardware.

Intended Use The control must only be operated according to the guidelines described in this manual. The prerequisite for a proper and safe operation of the product is correct transportation, storage, and installation as well as careful operation and maintenance.



NOTE

This manual has been developed for an control fitted with all available options. Inputs/outputs, functions, configuration screens, and other details described, which do not exist on your control, may be ignored.

The present manual has been prepared to enable the installation and commissioning of the control. Due to the large variety of parameter settings, it is not possible to cover every combination. The manual is therefore only a guide. In case of incorrect entries or a total loss of functions, the default settings may be taken from the enclosed list of parameters.

Chapter 2. Electrostatic Discharge Awareness

All electronic equipment is static-sensitive, some components more than others. To protect these components from static damage, you must take special precautions to minimize or eliminate electrostatic discharges.

Follow these precautions when working with or near any control.

- 1. Before doing maintenance on the electronic control, discharge the static electricity on your body to ground by touching and holding a grounded metal object (pipes, cabinets, equipment, etc.).
- 2. Avoid the build-up of static electricity on your body by not wearing clothing made of synthetic materials. Wear cotton or cotton-blend materials as much as possible because these do not store static electric charges as easily as synthetics.
- 3. Keep plastic, vinyl, and Styrofoam materials (such as plastic or Styrofoam cups, cigarette packages, cellophane wrappers, vinyl books or folders, plastic bottles, etc.) away from the control, modules, and work area as much as possible.

4. **Opening the control cover may void the unit warranty.**

Do not remove the printed circuit board (PCB) from the control cabinet unless absolutely necessary. If you must remove the PCB from the control cabinet, follow these precautions:

- Ensure that the device is completely voltage-free (all connectors have to be disconnected).
- Do not touch any part of the PCB except the edges.
- Do not touch the electrical conductors, connectors, or components with conductive devices or with bare hands.
- When replacing a PCB, keep the new PCB in the plastic antistatic protective bag it comes in until you are ready to install it. Immediately after removing the old PCB from the control cabinet, place it in the antistatic protective bag.



CAUTION

To prevent damage to electronic components caused by improper handling, read and observe the precautions in Woodward manual 82715, *Guide for Handling and Protection of Electronic Controls, Printed Circuit Boards, and Modules.*

Chapter 3. Housing

Dimensions

Housing Dimensions Front panel cutout Wiring Protection class Weight Typ APRANORM DIN 43700 96 × 72 × 130 mm 91 × 67 mm Screw-type terminals, depending on connector 1,5 mm² or 2,5 mm² IP 21, from front IP45 depending on version, approx. 500 g

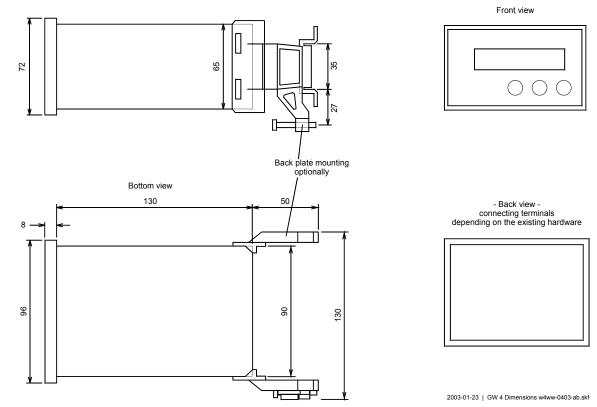
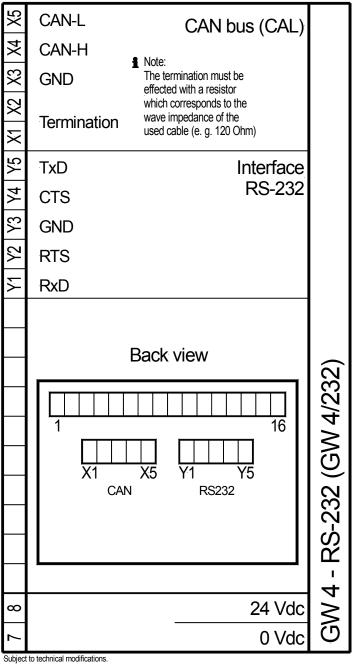


Figure 3-1: Dimensions GW4

Chapter 4. Connection

Wiring Diagram GW4/232



^{2004-10-04 |} GW 4-232 Wiring Diagram w4rs232ww-0445-ap.skf

Figure 4-1: Wiring diagram GW4/232

Wiring Diagram GW4/422

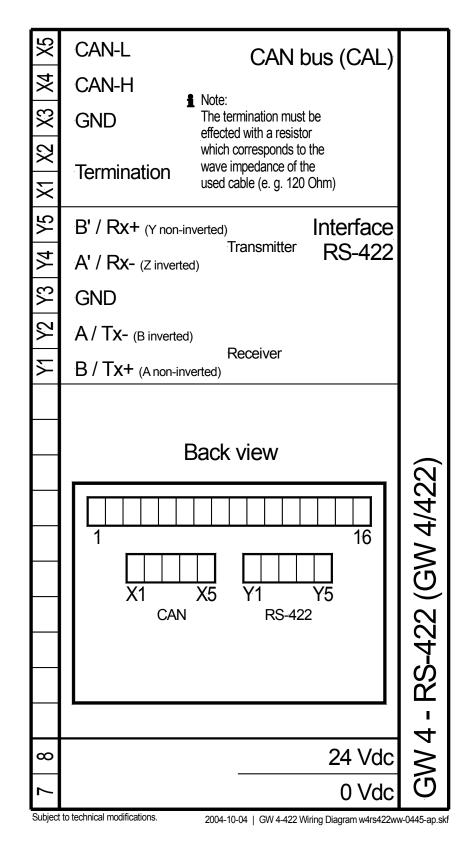


Figure 4-2: Wiring diagram GW4/422

Wiring Diagram GW4/TTY

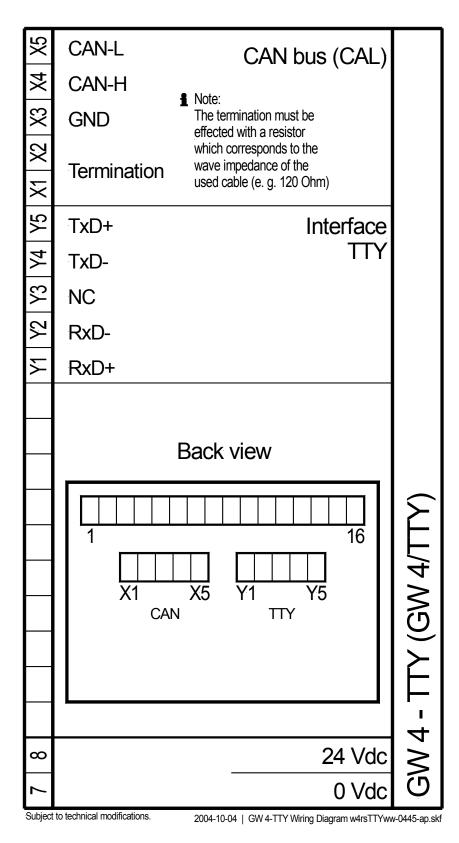
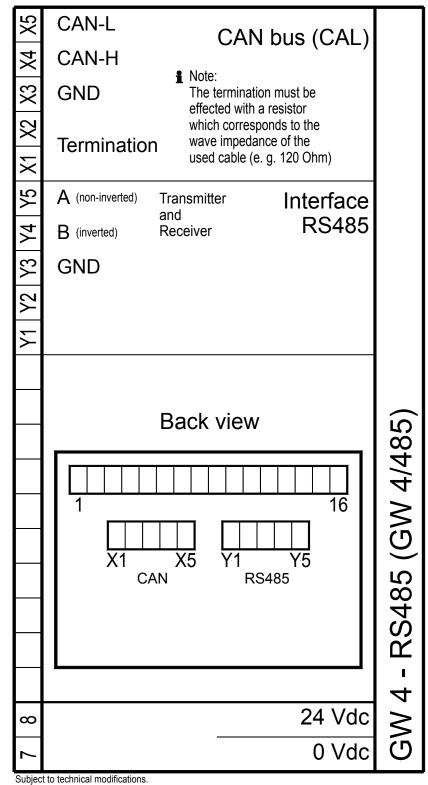


Figure 4-3: Wiring diagram GW4/TTY

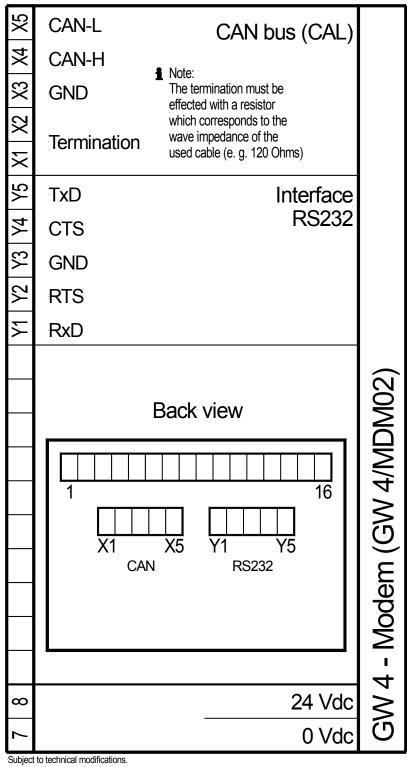
Wiring Diagram GW4/485



2003-01-23 | GW 4-485 Wiring Diagram w4rs485ww-0403-ap.skf

Figure 4-4: Wiring diagram GW4/485

Wiring Diagram GW4/232/MDM02+LDP



2004-08-30 | GW 4-MDM02 Wiring Diagram w4mdm02ww-0436-ap.skf

Figure 4-5: Wiring diagram GW4/MDM02

Wiring Diagram GW4/PRO

Х5	CAN-L	CAN bus (CAL)	
X	CAN-H	1 Note:	
X3	GND	The termination must be effected with a resistor	
X	Termination	which corresponds to the wave impedance of the	
\mathbf{X}	Termination	used cable (e. g. 120 Ohm)	
У6	RTS	Profibus DP	
Υ5	B-Line	slave	
Υ4	A-Line	8	
Y1 Y2 Y3 Y4 Y5	GND	Note: The Profi bus connection	
Υ2	+5 V	has to be terminated according to the	$\widehat{0}$
Σ	Screen	Profi bus specifications.	Ř
	В	ack view	ous DP (GW 4/PRO)
\square			
\square			$\underline{0}$
			Р
	X1 >	(5 Y1 Y6	l SI
Ш	CAN	Profibus DP	ipr
\square			rof
\square			
\square			GW 4 -
8		24 Vdc 0 Vdc	
	to technical modifications.	0 Vdc	Ū.

2003-01-23 | GW 4-PRO Wiring Diagram w4proww-0403-ap.skf

Figure 4-6: Wiring diagram GW4/PRO

Power Supply

18 to 30 Vdc

∞ 18 to 30 Vdc Power supply			-	
Power supply		8	18 to 30 Vdc	_
	●	~	0 V	Power supply

Figure 4-7: Power supply

Terminal	Description	A _{max}
7	0 V reference potential	2.5 mm ²
8	18 to 30 Vdc, max. 10 W	2.5 mm ²

Table 4-1: Power supply- terminal assignment

Interfaces

Interface with Woodward Units

Terminal

X1

CAN-H

X2

CAN-L

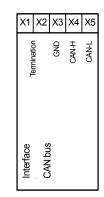
The interface with connected Woodward units is established via the CAN bus.

Х3

GND

X4

CAN-H



Tabee 4-2: CAN interface (Woodward) - terminal assignment

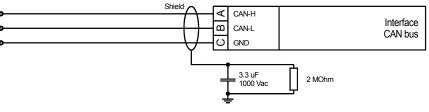
Χ5

CAN-L

Figure 4-8: Interface

NOTE

Please note that the CAN bus must be terminated with an impedance which corresponds to the wave impedance of the cable (e.g. 120 Ohm).



Description

CAN bus

Figure 4-9: Interface - CAN bus

The following must be noted to ensure trouble-free operation of the CAN bus:

- The maximum bus length must not exceed 250 meters.
- The bus must be terminated at each end with terminating resistors that correspond to the wave impedance of the bus cable (approx. 120Ω).
- The structure of the bus must be linear. Dead-end feeders are not permissible.
- Shielded "Twisted-Pairs" are preferable for use as bus cables (e.g.: Lappkabel Unitronic LIYCY (TP) 2×2×0.25, UNITRONIC-Bus LD 2×2×0.22).
- The bus cable must not be routed in the vicinity of power lines.

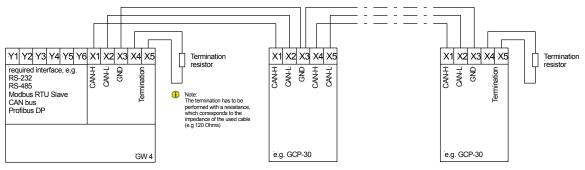


Figure 4-10: CAN bus - connection scheme

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NOTE

The CAN bUS terminals X1 and X4 as well as X2 and X5 are wired internally.

Interface with External Participants

The interface with connected external participants may be established via several bus systems or interface protocols.

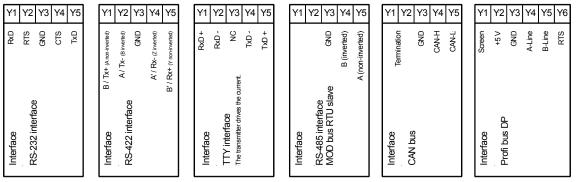


Figure 4-11: Interfaces (external)

Terminal								Description
Y1	Y2		Y	3		Y4	Y5	
RxD	RTS	;	GN	١D		CTS	TxD	RS-232
B / Tx+	A / T)	K-	GN	١D	A	' / Rx-	B' / Rx+	RS-422
RxD+	RxD	-	N	С		TxD-	TxD+	TTY
			GN	١D		В	А	RS-485, Modbus RTU Slave
CAN-H	CAN-	٠L	GN	١D	С	AN-H	CAN-L	CAN bus
Y1	Y2	``	Y3	Y4	ļ.	Y5	Y6	
Shield	+5 V	G	ND	A lir	ne	B line	RTS	Profibus DP (use the file WOOD_V13.GSD)

Table 4-3: Interfaces (external) - terminal assignment

Chapter 5. Functional Description

ATTENTION

The supply voltage (24 Vdc) for the GW 4 Gateway must not be connected directly to the engine's starter battery.

The following occurs if the unit is started by remote starting via the GW 4 Gateway from the control room/PLC: If the starter is energized, the supply voltage of the GW 4 Gateway can fall below below 18 Vdc. As a result, the GW 4 Gateway is reset and therefore issues a remote stop. A new starting procedure is then initiated and the same happens again. This procedure will repeats continuously.

Because there is a delay in the time taken by the GCP/AMG to detect an interface error (i.e. the error must be present for several seconds before the GCP/AMG is triggered), the fact that the GW 4 Gateway was momentarily reset is not detected as an error.

GW4/232

Functional Overview

The following protocols are implemented in this GW 4 (interface converter from CAN bus to RS-232 interface):

- Siemens DK3964 (R) with interpreter RK512 (can be switched on/off) GW 4/232/3964
- Modbus RTU slave (only two participants are possible)

GW 4/232/MOD GW 4/232/LDP

• Leonhard data protocol

The following functions are supported with this:

- Remote monitoring: display of all measured values
- Remote control: data transmission

GW 4/232/3964 [DK3964 (R) with Interpreter RK512]

Interface Data

Data	Character length	8 bit
	Stop bit	1 bit
Parity bit		1 bit with configurable parity (even/odd/no)
Data format 16 bit binary values		16 bit binary values
Transmission rates		1,200 / 2,400 / 4,800 / 9,600 / 19,200 / 31,250 Bauds, configurable. The da-
		ta records are transmitted cyclically.
	Procedure	DK3964/3964R with interpreter RK512
Procedur	e interpreter RK 512	Refer to the Siemens documents to protocol 3964.

Remote Monitoring (Measured Value Display)

GW 4 can transfer more data than can be handled in a DK 3964 telegram. This is why the master can request data packets of an individual length from GW 4. Refer to Appendix C on page 51 for data word assignment.



NOTE

Bit 15 in DW 100 is set, if the GW 4 receives data from the CAN bus. (It may be used for CAN interface monitoring).

Remote Control (Sending Set Point Values/Control Commands)

Three words are sent cyclically from the GW 4 Gateway to each unit connected that can be controlled remotely. These usually comprise:

- Set point power
- Set point power factor
- Word containing control bits

The relevant words must be sent to the corresponding data blocks for transmission. T Refer to Appendix C on page 51 for data word assignment.

The meaning of the data depends on the lower-level unit and is contained in the manual of this unit.

GW 4/232/MOD [Modbus RTU Slave]

Interface Data

Data	Character length	8 bit
	Stop bit	1 bit
	Parity bit	no parity
	Data format	16 bit binary values
Transmission rates 1,200 / 2,400 /	1,200 / 2,400 / 4,800 / 9,600 / 19,200 / 38,400 Bauds	
	Procedure	Modbus RTU Slave

A maximum of 20 words can be read or 10 words can be written with one command. Modbus function codes 03, 04, 06 and 16 are supported.



NOTE

Only two participants (1 Master and 1 Slave) can be connected for Modbus with interface RS-232.

Remote Monitoring (Measured Value Display)

Refer to Appendix C on page 51 for data word assignment.



NOTE

Bit 15 in the addresses 0, 70, ... (always first address of the data block) is set, if the GW 4 receives data from the CAN bus. (It may be used for CAN interface monitoring).

Remote Control (Sending Set Point Values/Control Commands)

Three words are sent cyclically from the GW 4 Gateway to each unit connected that can be controlled remotely. These usually comprise:

- Set point power
- Set point power factor
- Word containing control bits

The relevant words must be sent to the corresponding data blocks for transmission. Refer to Appendix C on page 51 for data word assignment.

The meaning of the data depends on the lower-level unit and is contained in the manual of this unit.

GW 4/232/LDP [Leonhard Data Protocol]

The Leonhard Data Protocol is an ASCII protocol for connecting to a PC via a serial port. It allows remote control (transmission of set point values/control commands), remote monitoring (visualization of measured data), and remote configuration (modification of unit parameters). This protocol is normally only used by the LeoPC1 program. Details about this protocol are available upon request.

The baud rate of this communications link can be configured to 38,400 or 9,600 Bauds. Please note that you have to configure the same baud rate in LeoPC1.



NOTE

The GW 4/232/LDP may be operated with a modem, which does not require external configuration. We recommend the following modems:

- Analog connection: Phoenix PSI-Data/Fax-Modem/RS232
- GSM connection: INSYS GSM 4.0

It is possible for both, to dispatch a fax or a short message by the means of a discrete input.

GW 4/422/LDP

GW4/422

Functional Overview

The following protocols are implemented in this GW 4 (interface converter from CAN bus to RS-422 interface):

- Siemens DK3964 (R) with interpreter RK512 (can be switched on/off) GW 4/422/3964
- Modbus RTU slave (only two participants are possible) GW 4/422/MOD
- Leonhard data protocol

The following functions are supported with this:

- Remote monitoring: display of all measured values
- Remote control: data transmission

GW 4/422/3964 [DK3964 (R) with Interpreter RK512]

Interface Data

Data	Character length	8 bit
	Stop bit	1 bit
	Parity bit	1 bit with configurable parity (even/odd/no)
	Data format	16 bit binary values
	Transmission rates	1,200 / 2,400 / 4,800 / 9,600 / 19,200 / 31,250 Bauds, configurable. The da-
		ta records are transmitted cyclically.
	Procedure	DK3964/3964R with interpreter RK512
Procedu	re interpreter RK 512	Refer to the Siemens documents to protocol 3964.

Remote Monitoring (Measured Value Display)

GW 4 can transfer more data than can be handled in a DK 3964 telegram. This is why the master can request data packets of an individual length from GW 4. Refer to Appendix C on page 51 for data word assignment.



NOTE

Bit 15 in DW 100 is set, if the GW 4 receives data from the CAN bus. (It may be used for CAN interface monitoring).

Remote Control (Sending Set Point Values/Control Commands)

Three words are sent cyclically from the GW 4 Gateway to each unit connected that can be controlled remotely. These usually comprise:

- Set point power
- Set point power factor
- Word containing control bits

The relevant words must be sent to the corresponding data blocks for transmission. Refer to Appendix C on page 51 for data word assignment.

The meaning of the data depends on the lower-level unit and is contained in the manual of this unit.

GW 4/422/MOD [Modbus RTU Slave]

Interface Data

Data	Character length Stop bit Parity bit Data format Transmission rates	8 bit 1 bit no parity 16 bit binary values 1 200 / 2 400 / 4 800 / 9 600 / 19 200 / 38 400 Bauds
	Transmission rates Procedure	1,200 / 2,400 / 4,800 / 9,600 / 19,200 / 38,400 Bauds Modbus RTU Slave

A maximum of 20 words can be read or 10 words can be written with one command. Modbus function codes 03, 04, 06 and 16 are supported.

i

Only two participants (1 Mater and 1 Slave) can be connected for Modbus with interface RS-422.

Remote Monitoring (Measured Value Display)

Refer to Appendix C on page 51 for data word assignment.

NOTE

NOTE

Bit 15 in the addresses 0, 70, ... (always first address of the data block) is set, if the GW 4 receives data from the CAN bus. (It may be used for CAN interface monitoring).

Remote Control (Sending Set Point Values/Control Commands)

Three words are sent cyclically from the GW 4 Gateway to each unit connected that can be controlled remotely. These usually comprise:

- Set point power
- Set point power factor
- Word containing control bits

The relevant words must be sent to the corresponding data blocks for transmission. Refer to Appendix C on page 51 for data word assignment.

The meaning of the data depends on the lower-level unit and is contained in the manual of this unit.

GW 4/422/LDP [Leonhard Data Protocol]

The Leonhard Data Protocol is an ASCII protocol for connecting to a PC via a serial port. It allows remote control (transmission of set point values/control commands), remote monitoring (visualization of measured data), and remote configuration (modification of unit parameters). This protocol is normally only used by the LeoPC1 program. Details about this protocol are available upon request.

The baud rate of this communications link can be configured to 38,400 or 9,600 Bauds. Please note that you have to configure the same baud rate in LeoPC1.

GW4/TTY

Functional Overview

The following protocols are implemented in this GW 4 (interface converter from CAN bus to TTY interface):

- Siemens DK3964 (R) with interpreter RK512 (can be switched on/off) GW 4/TTY/3964
- Modbus RTU slave (only two participants are possible) G
- Leonhard data protocol

GW 4/TTY/MOD GW 4/TTY/LDP

The following functions are supported with this:

- Remote monitoring: display of all measured values
- Remote control: data transmission

GW 4/TTY/3964 [DK3964 (R) with Interpreter RK512]

Interface Data

Data	Character length	8 bit
	Stop bit	1 bit
	Parity bit	1 bit with configurable parity (even/odd/no)
	Data format	16 bit binary values
	Transmission rates	1,200 / 2,400 / 4,800 / 9,600 / 19,200 / 31,250 Bauds, configurable. The da-
		ta records are transmitted cyclically.
	Procedure	DK3964/3964R with interpreter RK512
Procedu	re interpreter RK 512	Refer to the Siemens documents to protocol 3964.

Remote Monitoring (Measured Value Display)

GW 4 can transfer more data than can be handled in a DK 3964 telegram. This is why the master can request data packets of an individual length from GW 4. Refer to Appendix C on page 51 for data word assignment.



NOTE

Bit 15 in DW 100 is set, if the GW 4 receives data from the CAN bus. (It may be used for CAN interface monitoring).

Remote Control (Sending Set Point Values/Control Commands)

Three words are sent cyclically from the GW 4 Gateway to each unit connected that can be controlled remotely. These usually comprise:

- Set point power
- Set point power factor
- Word containing control bits

The relevant words must be sent to the corresponding data blocks for transmission. Refer to Appendix C on page 51 for data word assignment.

The meaning of the data depends on the lower-level unit and is contained in the manual of this unit.

GW 4/TTY/MOD [Modbus RTU Slave]

Interface Data

Data	Character length	8 bit
	Stop bit	1 bit
	Parity bit	no parity
	Data format	16 bit binary values
	Transmission rates	1,200 / 2,400 / 4,800 / 9,600 / 19,200 / 38,400 Bauds
	Procedure	Modbus RTU Slave

A maximum of 20 words can be read or 10 words can be written with one command. Modbus function codes 03, 04, 06 and 16 are supported.

i

Only two participants (1 Mater and 1 Slave) can be connected for Modbus with TTY interface.

Remote Monitoring (Measured Value Display)

Refer to Appendix C on page 51 for data word assignment.

NOTE

NOTE

Bit 15 in the addresses 0, 70, ... (always first address of the data block) is set, if the GW 4 receives data from the CAN bus. (It may be used for CAN interface monitoring).

Remote Control (Sending Set Point Values/Control Commands)

Three words are sent cyclically from the GW 4 Gateway to each unit connected that can be controlled remotely. These usually comprise:

- Set point power
- Set point power factor
- Word containing control bits

The relevant words must be sent to the corresponding data blocks for transmission. Refer to Appendix C on page 51 for data word assignment.

The meaning of the data depends on the lower-level unit and is contained in the manual of this unit.

GW 4/TTY/LDP [Leonhard Data Protocol]

The Leonhard Data Protocol is an ASCII protocol for connecting to a PC via a serial port. It allows remote control (transmission of set point values/control commands), remote monitoring (visualization of measured data), and remote configuration (modification of unit parameters). This protocol is normally only used by the LeoPC1 program. Details about this protocol are available upon request.

The baud rate of this communications link can be configured to 38,400 or 9,600 Bauds. Please note that you have to configure the same baud rate in LeoPC1.

GW 4/485

Functional Overview

The following protocols are implemented in this GW 4 (interface converter from CAN bus to RS-485 interface):

- Modbus RTU slave GW 4/485/MOD
- Leonhard data protocol[#] GW 4/485/LDP

[#] A converter is required for your PC interface.

The following functions are supported with this:

- Remote monitoring: display of all measured values
- Remote control: data transmission

GW 4/485/MOD [Modbus RTU Slave]

Interface Data

Data	Character length	8 bit
	Stop bit	1 bit
	Parity bit	no parity
	Data format	16 bit binary values
	Transmission rates	1,200 / 2,400 / 4,800 / 9,600 / 19,200 / 38,400 Bauds
	Procedure	Modbus RTU Slave

A maximum of 20 words can be read or 10 words can be written with one command. Modbus function codes 03, 04, 06 and 16 are supported.

Remote Monitoring (Measured Value Display)

Refer to Appendix C on page 51 for data word assignment.



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Bit 15 in the addresses 0, 70, ... (always first address of the data block) is set, if the GW 4 receives data from the CAN bus. (It may be used for CAN interface monitoring).

Remote Control (Sending Set Point Values/Control Commands)

Three words are sent cyclically from the GW 4 Gateway to each unit connected that can be controlled remotely. These usually comprise:

- Set point power
- Set point power factor
- Word containing control bits

The relevant words must be sent to the corresponding data blocks for transmission. Refer to Appendix C on page 51 for data word assignment.

The meaning of the data depends on the lower-level unit and is contained in the manual of this unit.

GW 4/485/LDP [Leonhard Data Protocol]

The Leonhard Data Protocol is an ASCII protocol for connecting to a PC via a serial port. It allows remote control (transmission of set point values/control commands), remote monitoring (visualization of measured data), and remote configuration (modification of unit parameters). This protocol is normally only used by the LeoPC1 program.

The baud rate of this communications link can be configured to 38,400 or 9,600 Bauds. Please note that you have to configure the same baud rate in LeoPC1.

GW 4/232/MDM02+LDP

Functional Overview

The following functions are possible with the GW 4/232/MDM02 (interface converter from CAN bus to an external modem):

- Remote monitoring: display of all measured values via LeoPC1
- Remote control: data transmission via LeoPC1

The device forms the interface between the CAN bus used internally at Woodward and an external modem of the type

• US Robotics Courier V Everything 56k SER von 3COM.

For this, the modem has to be connected as described under Coupling via GW 4/ on page 43. It converts the data into an ASCII protocol (Leonhard standard protocol) which is used by the PC to write parameters and perform remote monitoring.

The DIP switches of the modems should be configured as follows:

DIP	Setting	Meaniong
1	ON	Ignore DTR
2	OFF	Replys as text
3	ON	Activate replys
4	OFF	Activate echo for offline operation
5	OFF	Activate automatic call acceptance
6	OFF	Normal carrier detection
7	OFF	Display reply in all modes
8	ON	Activate AT commands
9	OFF	Terminate connection with escape code (+++)
10	ON	Load &F0 configuration from ROM



NOTE

The GW 4/232/MDM02 is especially designed to control the US Robotics modem.

Active calling is not possible. However, if this function is necessary, refer to the note under GW 4/232/LDP [Leonhard Data Protocol] on page 20. The GW 4/232/MDM02 may be used like a GW 4/232/LDP, but the different wiring and the fixed baud rate of 4,800 Baud must be considered.

GW 4/PRO

Functional Overview

The following functions are possible with the GW 4/PRO (interface converter from CAN bus to Profibus DP slav):

- Remote monitoring: display of all measured values
- Remote control: data transmission
- Remote configuration: changing non-volatile parameters (on request)

Remote Monitoring (Measured Value Display)

The GW 4 can transfer more data than the Profibus DP can simultaneously make available. For this reason, the data is sent in packets from 0 to 7, each packet containing the data of one data block. Thus, packet 0 contains the data of data block 1, packet 1 the data of data block 2, etc. In order to receive the data of a packet from GW 4, the corresponding packet number (packet pre-selection) is transmitted from the higher-level controller. After receiving the packet, GW 4 sends an echo to the higher-level controller to acknowledge the successful transmission (echo packet pre-selection). This echo will be sent twice in two different bytes. Only if both echo bytes contain the same value, the received data block (70 words) is valid. The addresses of the received data are described under Parameter on page 29. The meaning of the data depends on the lower-level unit and is contained in the manual of this unit.

Remote Control (Sending Set Point Values/Control Commands)

Three words are sent cyclically from the GW 4 Gateway to each unit connected that can be controlled remotely. These usually comprise:

- Set point power
- Set point power factor
- Word containing control bits

The relevant send commands of the Profibus DP transmission range must be written for transmission. The addresses of the transmission data are described in the following under Parameter on page 29. The meaning of the data depends on the lower-level unit and is contained in the manual of this unit.

Remote Configuration (Changing Non-Volatile Parameters)

NOTE

Improper configuration may result a damage of the system. A special training by Woodward personnel is required for remote configuration.

The following sequence is necessary for reading and writing the parameters (the addresses of the receiving and transmission data are described in the following under Parameter on page 29):

- 1.) A remote configuration can only be started if the status of the remote configuration is "zero". If this is not the case, the command "Remote configuration" must be set to "zero", until this status is reached.
- 2.) The ID of the value to be configured is written to "ID remote configuration".
- 3.) If a value is to be written, this value has to be written to "Data remote configuration".
- 4.) The number of the unit to be configured [1 to 8] has to be written to the second byte of "Command remote configuration".
- 5.) If parameters are to be read, 255d (0xFFh) will be written to the first byte of " Command remote configuration ", and for the case that values are to be written, 238d (0xEEh) will be written to this byte.
- 6.) There is a delay until bit 2 is set in "Status remote configuration" of approximately 500 ms).
- 7.) If bit 0 in "Status remote configuration " is set, a failure has been detected. As a result, the complete sequence has to be repeated beginning with 1.
- 8.) If a value is to be read, this value is contained in "Echo data". The sequence is finished consequently.
- 9.) If a value has been written, the written value has to be read for checking it (as described above).

The assignment "ID \leftrightarrow Configuration value" differs for each unit to be configured and can be delivered on request.

Notes

The data is organized word-by-word with leading high byte.

Receive test byte The receive test byte can be used to check the connection between higher-level controller (Profibus Master) and GW 4, bit 0 of which is changing every 2,5 seconds.

Transmission test byte Bit 0 may be used as test bit for the GW 4. If watchdog monitoring is enabled using the configuration screens, the master has to change this bit at least every 4 seconds. GW 4 monitors this inversion and re-initializes the interface if this is not the case. Monitoring can be disabled using the configuration screens without affecting the function.

GSD file The file WOOD_V13.GSD is to be used.

NOTE

It must be observed that the Profibus connection of the PLC requires a Master, which has at least 200 Bytes consistency range. PLCs with lower consistency range do not work.

Parameter

Data received by the Profibus Master:

Bvtes 0 through	7 Echo remote configuration
	Echo command
	Echo ID
	Echo data
	Status of remote configuration
Bit 0 = 1	Error in the remote configuration
Bit 1 = 1	Command "Remote configuration" is currently being processed
	Com. "Remote configuration" has been successfully completed
Byte 8 ^{#1}	
Bit 8	is set, if the GW 4 receives data from the CAN bus (it may be
	used for CAN bus monitoring)
Byte 9 ^{#1}	Echo packet pre-selection [0 to 7]
	Only if both echoes (bytes 9 + 184) are identical to the pre-
	selection, the data is valid
	Measured data of the selected generator [69 words]
5	See "Transmission telegram" in the corresponding manual of the unit
	(e.g. GCP-30)
Byte 184	Echo packet pre-selection [0 to 7]
	Only if both echoes (bytes 9 + 184) are identical to the pre-
	selection, the data is valid
Byte 185	Receive test byte

Data sent by the Profibus Master:

-	
	Transmission test byte
(If v	watchdog monitoring is set to "ON" in the configuration screen, this bit
	t be inverted every 4 seconds. GW 4 monitors this and, if necessary,
	re-initializes the interface.
Byte 8 through	15 Remote configuration commands ^{#2}
	Command remote configuration
Byte 10/1	1 ID remote configuration
Byte 12/1	3Date remote configuration
Byte 14/1	5Open
	Remote control data
Byte 16/1	71. Control word (e.g. set point power), Generator 1
Byte 18/1	92. Control word (e.g. set point power factor), Generator 1
Byte 20/2	1
•	231. Control word (e.g. set point power), Generator 2
	25 2. Control word (e.g. set point power factor), Generator 2
Byte 26/2	27
Bvte 58/5	i91. Control word (e.g. set point power), Generator 8
•	1
	3
	expanded Block: Byte 8 and Byte 9 contain the first data word. See Page 51. to15 must be set to zero "0" if this is not configured.

Machine Bus Monitoring For GW 4/xxx/MOD

The Modbus (terminals Y1/Y5) is monitored with regard to its function. If a function is no longer detected, a fault message is issued on the guidance bus (terminals X1/X5).

Meaning of the bits in control word 3 of the telegram "Remote control via Gateway GW 4" of the GCP:

	Guidance bus		Modbus
	(terminals X1/X5)	GW 4	(terminals Y1/Y5)
Bit	Meaning		
Bit 15	passed through from Modbus		
Bit 14	passed through from Modbus		
Bit 13	passed through from Modbus		~~~~
Bit 12	passed through from Modbus		
Bit 11	passed through from Modbus		
Bit 10	passed through from Modbus		
Bit 9	passed through from Modbus		
Bit 8	passed through from Modbus		
Bit 7	passed through from Modbus		
Bit 6	passed through from Modbus		
Bit 5	passed through from Modbus		
Bit 4	passed through from Modbus		
Bit 3	always 0		
Bit 2	for Y bus monitoring		Y bus bit
	- 0 if Y bus OK		If Modbus monitoring can be
	- 1 if Y bus not OK		switched on/off via remote configu-
	- otherwise always 0		ration, this bit is evaluated by GW 4
			thereupon.
			- 0 Monitoring ON
Dit d			- 1 Monitoring OFF
Bit 1	passed through from Y bus		
Bit 0	passed through from Y bus		

i

NOTE

In order to stop Y bus monitoring, only the respective bit has to be set to 1 for one generator.

i No

NOTE

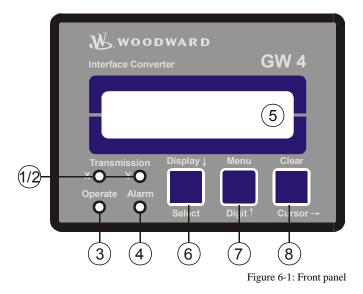
In case of the data word 2, cosphi, it is possible to set bits 8 through 15 to 0 with the parameter "Delete Hi-Byte Word 2".

This may be used to indicate that the CAN connection is still active to some devices.

Chapter 6. Display and Control Elements

Front Panel

The touch-sensitive front panel has a plastic coating. All keys have been designed as touch-sensitive membrane keys. The Liquid Crystal display displays 2×16 characters that are indirectly illuminated in green. The contrast of the display can be infinitely adjusted with a rotary potentiometer positioned on the left.



LEDs:

① "X"	Data communication on X terminals
② "Y"	Data communication on Y terminals
③ "Operate"	Automatic mode
④ "Alarm"	Alarm present

LC Display:

5	"LC Display"	LC Display

Push Buttons:

6	"Display↓ / select"	Confirm selection and scroll display
	"Digit↑"	Increment digit
8	"Cusror→"	Move cursor position to the right

LEDs

1	LED	Data communication on X terminals		Color "YELLOW"	
	"X"	This LED is flashing, if data is received on the CAN bus (guidance bus).			
2	LED "Y"	Data communication on Y terminals		Color "YELLOW"	
	r	on The LED is on for an outgoing connection [GW 4/MDM] if data is transferred.			
		flashing The LED is flashing if for the [GW 4/			
		/MDM02]	data is sent		
		/xxx/LDP]	data is sent		
		/xxx/MOD]	data is received		
		/xxx/3964]	data is received		
		/PRO]	a connection to the Profibus Master is e	established	
3	LED	Operation		Color "GREEN"	
	<i>"Operate"</i> This LED is on if the unit is in automatic mode. If it is in configuration mode, this LED is flashing.				
4	LED	Alarm		Color "RED"	
"Alarm"		The alarm LED is not used	for the GW 4 at the moment.		

LC Display

⁽⁵⁾ ANZEIGE LC ["LC Display"

LC Display

The two-line liquid crystal display displays the respective messages and values depending on the selected mode. The parameters are changed in configuration mode.

Automatic Mode (First Display Line)

Id xxx Dat xxx

Display in automatic mode, first line

Id xxx Send address Dat xxx Sent value or 0

Automatic Mode (Second Display Line)

Device 00x

Display in automatic mode, second line

only Modbus /3964/PRO

The number of the device, to which remote control data has been sent before.

Push Buttons

In order to facilitate the parameter setting, the buttons have an AUTOROLL function. It allows to switch to the next setting and configuration screens, digits, or cursor positions. The AUTOROLL function becomes active if the user holds the respective key pressed down for a certain time.

6	Button "Display√" "Select"	Display↓ / Select
		 Display↓Jump to the next configuration screen. SelectJump to the initially displayed value has been changed with the "Digit↑" ⁽⁷⁾ or "Cursor→" ⁽⁸⁾ buttons, it will be stored by pushing the "Select" button ⁽⁶⁾ once. Pushing the "Select" button ⁽⁶⁾ again makes the display jump to the next configuration screen.
7	Button	Menu / Digit↑
	"Menu" "Digit <i>î</i> "	 MenuThis function is not used at the moment. Digit¹This button increases the digit at the cursor position. It will only be increased within the configurable limits according to the parameter list in the appendix. If the highest number has been reached, the digit jumps to the smallest possible value automatically.
8	Button "Clear" "Cursor→"	Clear / Cursor→
		ClearThis function is not used at the moment. Cursor→This button moves the cursor one position to the right. If the right-most position has been reached, the cursor jumps to the first digit at the left of the value to be entered.

Chapter 7. Configuration

You get into configuration mode by pressing the "Digit¹" $(\widehat{})$ and "Cursor \rightarrow " $(\widehat{})$ buttons simultaneously. You can scroll through the single configuration screens with the "Display \downarrow " $(\widehat{})$ button in configuration mode. Pressing the "Display \downarrow " $(\widehat{})$ button and keeping it pressed activates the AUTOROLL function to enable quicker scrolling through the screens. Please note that it is not possible to scroll backwards. If no entry, change or any other action has been performed for a period of 60 seconds, the unit returns to automatic mode automatically.

General Configuration Screens

Software version	Version number	Info	
****	Display of the software version (xxx stands for modifications, which have no effect on the functionality of the unit). Later versions have 4 decimals. Moreover, the interface type on the Y terminals (e.g. modem) is displayed here.		
		Display	
		xxxxxxxxxxxxxxx	
	GW 4/MDM02	Vx.xxx Modem	
	GW 4/xxx/LPD	Vx.xxx LPD	
	GW4/xxx/MOD	Vx.xxx Modbus	
	GW4/xxx/3964	Vx.xxx Pr3964	
	GW4/PRO	Vx.xxx Profibus	
	The screens (configuration and dis in German or English.	splay screens) can either be displayed	
Remote control m	Send remote message every	1 to 20 s	
at 00s	Time in seconds until all connecte remote configuration message (on	d devices have received a complete ly MOD, 3964, PRO).	
Transmit-ID	Transmission code ID	830/831	
000	Using this screen, you can switch the Transmit ID of the GW 4 between 830 and 831 for later extensions. The default value is 831.		
Interface type	Interface type	3964/3964R	
	Changes the procedure according	ly.	

only GW 4/xxx/3964

Manual 37133E

Baudrate	Baud rate	see Chapter 5 "Function"
only GW 4/xxx/3964 only GW 4/xxx/MOD only GW 4/xxx/LDP	Baud rate selection.	
Parity	Parity	none / even / odd
only GW 4/xxx/3964 only GW 4/xxx/MOD	Parity selection.	
Protocol	Protocol type	1/2/3
Type 0 only GW 4/xxx/LDP	Used to be able to evaluate extended comman LeoPC1. The default value is 1. 1LeoPC1 standard protocol 2LeoPC1 extended standard protocol 3LeoPC1 extended standard protocol	bl
PROFIBUS station	Station name of the Profibus	0 to 126
000 only GW 4/PRO	The station number of the Profibus DP is enter	ed here.
PROFIBUS watch-	Watchdog functions	ON/OFF
dog OFF only GW 4/PRO	ON The watchdog bit is monitored addiabove description.OFF Monitoring of the watchdog it is disasion is still possible.	
Slave-No.	Slave number	1 to 99
00 only GW 4/xxx/MOD	Enter the slave number of the Modbus here.	
Stopbits	Number of stop bits	one/two
only GW 4/xxx/MOD	Determine the number of stopbits here.	
Delay to send	Delay to send Modbus	0.2 to 50.0 ms
Modbus 00,0ms only GW 4/xxx/MOD	Configuration of the waiting time between the r the GW 4 and the answer by the GW 4. This tiu PLC enough time to switch the Modbus back to time is too short, transmission failures may occ at 9,600 bauds; other baud rates may require a	me is required to give the b high resistance. If this cur (default setting is 3 ms
Timeout Y-Bus monitoring NO only GW 4/xxx/MOD	Y bus monitoring YES Monitoring of the Y bus is enabled NO	YES/NO

Gateway / Interface Converter - GW 4

Timeout Y-Bus	Y bus monitoring can be enabled externally	YES/NO	
switchable NO only GW 4/xxx/MOD Y bus monitoring ON	YesY bus (Modbus) monitoring by the GW 4 can be enabled or disabled using the Y bus. The Y bus bit is used as control bit.NOY bus (Modbus) monitoring is enabled.		
Timeout Y-Bus	Y bus monitoring maximum time	0 to 999 s	
max. delay 000s only GW 4/xxx/MOD Y bus monitoring ON			
receiver only	Receiver only type	YES/NO	
YES	Note: If several GW 4s are connected to one CAN bus, this parameter may only be set to "NO" for maximum one GW 4.		
	YESAll CAN write operations of the GW 4 to the controlled unit are blocked. It is only possible to read measurement data (only remote monitoring, no remote control, no remote configura- tion).		
	NO The GW 4 can read data as well as write data (default).		
Parameterize time out 0,0s	Timeout for configuration The timeout is used to adapt to different configurations of	0.1 to 9.9 s the unit. It	
only GW 4/xxx/MOD should be configured to 2.0 s.			

Data Transmission Mode

Delete Hi-Byte	Delete Hi-Byte word 2	YES/NO
Word 2 YES only GW 4/xxx/MOD	This configuration screen is available for future functions. It has to be con- figured to "YES" by default.	
	 NO The data of the data word 2, cosphi, of the remote control data will be transmitted without modification. YES Bit 8 to 15 (Hi-Byte) of the data word 2 of the remote control data will be set to "0". 	
change CAN-IDs	Change receive ID	YES/NO
NEIN	If this parameter is configured to "YES", the receive ID of the GW 4 on the CAN bus can be changed using the following screen. If this parameter is configured to "NO", the standard value "801" is enabled.	
Block X receive	Set receive ID	0 to 2047
of CAN-ID 000 x = 1 to 8	This screen enables to switch the receive ID of the GW 4 on the CAN bus per block between 801 and 808 for future extensions. For this is valid: block $1 = ID 801$, block $2 = ID 802$,, block $8 = ID 808$. Ensure that no two blocks have identical IDs. This setting does not change the settings of the second interface.	

Configuration Expansion (Sub-Units)

expand block x NEIN Expand block x

YES/NO

Two consecutive blocks are combined (refer to Appendix C).





NOTE

Further informationen about this can be found in the appendix under Size of the Receive Blocks auf Seite 46.

Chapter 8. Technical Data

Ambient variables	
- Power supply (U _{aux})	
- Intrinsic consumption	
- Ambient temperature	
- Ambient humidity	•
Interface	
CAN bus interface	
- Isolation voltage	
- Version	
- Internal line termination	
RS-232 interface (Models GW 4/232 and GV	W 4/MDM02)
- Version	
RS-422 interface (Model GW 4/422)	
- Version	RS-422 Standard
TTY interface (Model GW 4/TTY)	
- Version	TTY Standard
	i i i i i i i i i i i i i i i i i i i
RS-485 interface (Model GW 4/485)	
- Version	
Profibus interface (Model GW 4/PRO)	
- Version	Profibus DP Slave Standard
Housing	
- Type	
- Dimensions (W \times H \times D)	
- Front panel cutout (W×H)	
- - WiringScrew-type terminals dependent	ding on plug connector 1.5 mm^2 or 2.5 mm^2
- Weight	
Protection	
- Protection class	
- Front foil	
- EMV test (CE)te	
- Listings	0 11 0

Chapter 9. **Data Connection**

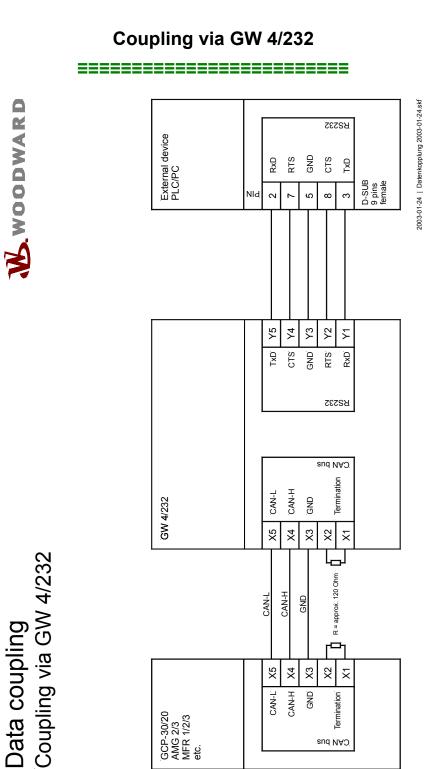
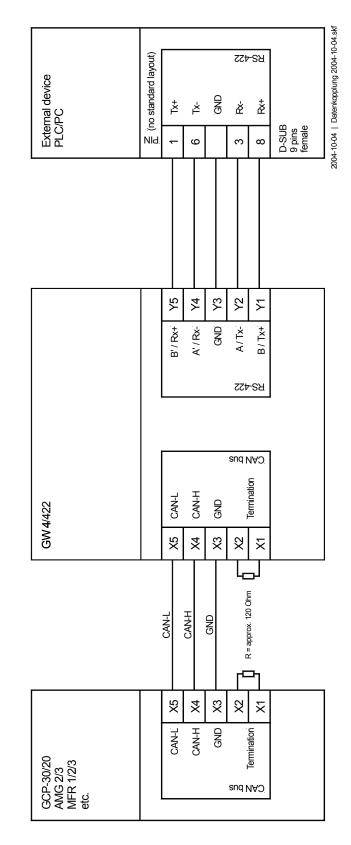


Figure 9-1: Data coupling - GW4/232

Coupling via GW 4/422

W.WOODWARD



Data coupling Coupling via GW 4/422

Figure 9-2: Data coupling - GW4/422

Coupling via GW 4/TTY

W.WOODWARD



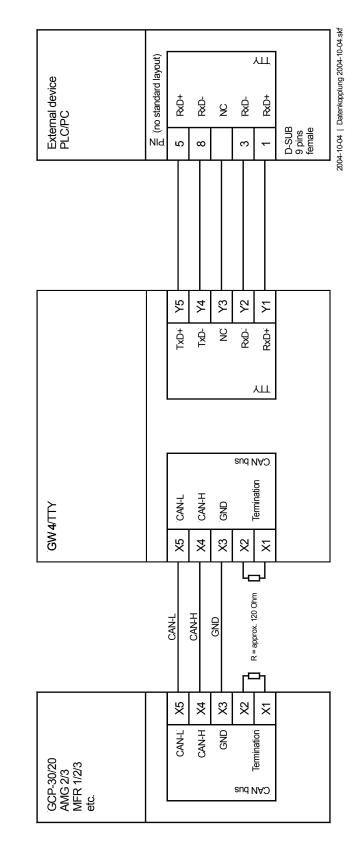


Figure 9-3: Data coupling - GW4/TTY

Coupling via GW 4/485



Data coupling Coupling via GW 4/485

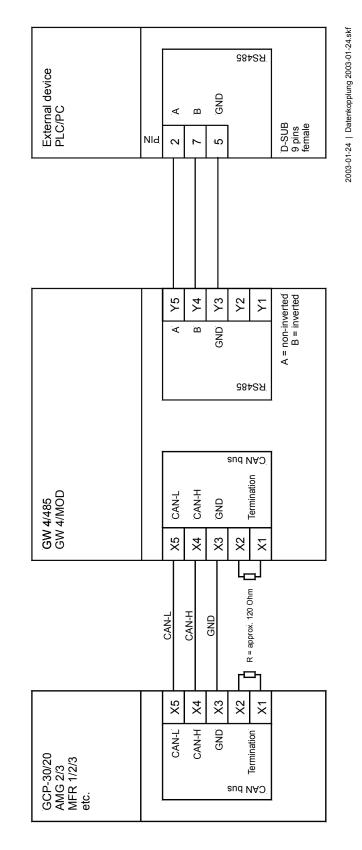
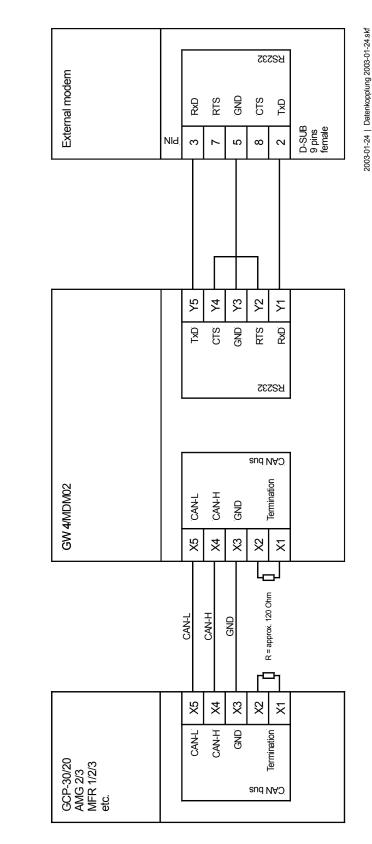


Figure 9-4: Data coupling - GW4/485

Coupling via GW 4/232/MDM02+LDP



W.WOODWARD

Data coupling Coupling via GW 4/MDM02 (modem)

Figure 9-5: Data coupling - GW4/MDM02

Coupling via GW 4/PRO

W.WOODWARD

Data coupling Coupling via GW 4/PRO (Profibus DP)

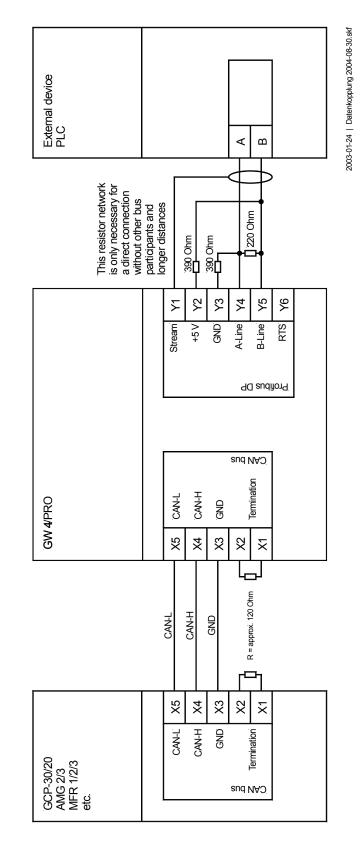


Figure 9-6: Data coupling - GW4/PRO

Appendix A. Practical Applications

Structure of the GW 4

The GW 4 transmits data from a bus to the CAN bus.

Master:		GW 4		up to 8 recipients:
e.g. PLC	connected to GW 4 via:		CAN bus	e.g. GCP
_	Profibus			
	3964			
	Modbus			
	LDP / MDM02			

The CAN Interface

General Information

Up to 8 units can be connected to the GW 4 using the CAN bus.

The baud rate of the CAN bus is 125kBaud and cannot be configured.

The GW 4 receives only CAN messages in the formats

DD <Mux> <data word 1> <data word 2> <data word 3>; Mux from 0 to DC Hex or

<Mux> DD <data word 1> <data word 2> <data word 3>; Mux from 1 to DC Hex. The last format is outdated and shall not be supported in future.

Settings for Receiving CAN Messages

The GW 4 receives by default on the following CAN IDs:

CAN ID	Block No.
801	Block 1
802	Block 2
803	Block 3
804	Block 4
805	Block 5
806	Block 6
807	Block 7
808	Block 8

These blocks can be changed using the parameter: "Block x receive on CAN-ID xxxx". If the GW 4 receives data, the "X" LED is flashing.

Size of the Receive Blocks

A block may receive a maximum of 138 bytes. This is enough for most units. The parameter "expand block x" allows to unite two blocks to one. 276 bytes can be received then. However, the subsequent block cannot receive data anymore then.

Block 1 expanded	Receives data on CAN ID of block 1
Block 2	Receives no data; data on CAN ID is ignored
Block 3 not expanded	Receives data on CAN ID of block 3
Block 4	Receives data on CAN ID of block 4
Block 5 expanded	Receives data on CAN ID of block 5
Block 6	Receives no data; data on CAN ID is ignored
Block 7 expanded	Receives data on CAN ID of block 7
Block 8	Receives no data; data on CAN ID is ignored

Reading out data from an expanded block is performed like for two not expanded blocks.

Please note:

- Modbus: Data word 0 of the block following the expanded block corresponds with data word 70 of the connected device.
- Profibus: One package may contain one block. This means that the PLC has to read the packages 0 and 1 for expanded blocks.

Notes to expanded blocks:

If a block is expanded, the data for the following block is ignored. But no CAN IDs should still be configured identically.

Sending CAN Messages

CAN messages can be sent via the GW 4.

These are remote control and configuration messages coming from the master.

Sending a message from the GW 4 is performed on CAN ID 830 or 831. The CAN ID is configured using the parameter "Transmit-ID".

If a receiver is connected to the GW 4 (GW 4 receives data), the GW 4 transmits remote control messages. Remote control messages are only transmitted for connected units. A remote control message consists of 3 CAN messages. This is performed once for each recipient every 3 seconds. With this, 24 CAN messages are sent every 3 seconds for 8 recipients. For 1 recipient, only 3 CAN messages are sent in 3 seconds.

Depending on the connected receiver, it may be necessary to transmit the remote control messages faster or slower. This is performed using the parameter "Remote control m. at xxs". If 10 seconds is entered here, 24 CAN messages will be sent every 10 seconds for 8 recipients, or only 3 CAN messages for one recipient.

If the GW 4 shall not send CAN messages, the parameter "receiver only" must be configured YES.

Notes to expanded blocks:

Fixed device numbers are assigned to the blocks:

Block No.	1	2	3	4	5	6	7	8
Device No.	1	2	3	4	5	6	7	8

A remote control message will only be only sent to a device no., which is recognized as active. If a block is configured to 'extended', the following device will not be detected as active.

If block 1 is configured as 'extended' for example, the device with the generator no. 2 will not be detected as active, even if visualization data is received on block 3.

In order to avoid this problem, one or more GW 4 may be used to receive the visualization data, and another to send the remote control data.



NOTE

If several GW 4s are connected to one CAN bus, the Transmit ID must be configured differently, or the GW 4 must be configured in a way that it does not send CAN messages (see above).

The Profibus Interface

The GW 4 may be equipped with a Profibus DP slave interface. It is used to connect to a PLC.

The baud rate of the Profibus interface is predetermined by the master. The Profibus station has to be configured at the GW 4 using the parameter "PROFIBUS station".

A data volume of 186 bytes is transmitted on the Profibus. The meaning of each byte can be found under Parameter on page 29.

The general sequence is as follows:

- 1. Write the number of the desired block into byte 0 "Packet preselection" of the data sent by the Profibus Master.
- 2. Wait until this number re-appears in both bytes (9 & 184) "Echo packet preselection" (the received data block is only valid if the same values is contained in both bytes). The data of the selected block is transmitted.
- 3. Check, whether bit 8 is set in byte 8 "CAN watchdog". If yes, CAN data is also received on this block.
- 4. The data on byte 10 to 147 can be evaluated. (See description of the unit, which is received by the GW 4 on this block.)

Protocol 3964

The protocol 3964 is usually operated as a peer-to-peer connection with an RS-232 interface.

In order to utilize the protocol 3964 at the GW 4, the following must be configured:

- Interface type 3964 or 3964R, depending on the used protocol
- Baud rate and parity at the GW 4

Modbus

The Modbus protocol can be used with an RS-232 or an RS-485 interface hardware. The GW 4 operates as Modbus slave.

Baud rate, parity and number of stopbits are to be configured at the GW 4 like for the remote terminal.

The slave number is the number, which is used by the Modbus master to address the GW 4.

The parameter "Delay to send Modbus" is used to configure a minimum time between receiving a message and the reply of the GW 4s. This is important to give the master enough time to release the line for the reply if the GW 4 is connected to the master via an RS-485 interface.

Modbus Monitoring

A unit connected to the GW 4 can detect with Modbus monitoring, whether the Modbus master is still active or not.

This serves for validating the transmission of remote control data.

The parameter "Timeout Y-Bus monitoring" must be configured YES for this.

The parameter "Timeout Y-Bus max. delay" is used to configure the minimum time, for which the Modbus has to fail, before an alarm is issued.



NOTE

If no remote control data is sent by the master, but only visualization data is read out, the Modbus is considered as OK. No failure is reported to the connected units.

The parameter "Timeout Y-Bus switchable" is used to determine whether the Modbus monitoring can be enabled or disabled by the master or not.

Sending Daten

Data, which is sent to the GW 4, can not be read out.

The parameter "Delete Hi-Byte Word 2" is used to determine whether the High byte of the control word for the set point power factor transmission is always set to 0. Some units have to rely on this because they use this to check whether correct data is sent on the CAN bus.

LDP Protocol

The parameter "Baudrate" must be configured the same in LeoPC1 and in the GW 4. Apart from that, the GW 4 has the following data: no parity, 8 data bits and 1 stop bit.

The parameter "Protocol Type" must be configured 2 if the extended standard protocol is used in LeoPC1.

Modem

The LDP protocol is used for the GW 4/MDM02. The GW 4/MDM02 can be connected directly to a PC like a GW 4/LDP.

When wiring the unit, ensure that Y2 and Y4 are jumpered. The baud rate must be configured to 4,800 bauds in LeoPC1.

Several GW4s at one CAN Bus

It is principally possible to connect several GW 4s to one CAN bus.

But the following has to be noted for this:

The Transmit ID of the GW 4s must not be the same. The parameter "receiver only" is configured YES for this – no data is transmitted.

Now, remote control/configuration is possible with a GW 4.

Appendix B. Application Restrictions

Only one GW 4 may send at one time on the CAN bus (Parameter "receiver only" = NO).

The GW 4 is only able to remote control units, which are assigned to the device numbers 1 to 8.

70 data words = no extended block (standard) more than 70 data words = extended block (e.g. easYgen-1500, GCP-30 with SB03 or SC06, SC07, SC08)

Number of devices	Application	Required GW 4s	Comments
8 devices with	Visualization and	1 GW 4	Device no. 1 is to be assigned to receive
70 data words	remote control		box no. 1 and so on.
1 device with	Visualization and	1 GW 4	Device is to be assigned to receive box
extended block	remote control		no. 1.
2 to 4 devices with ex-	Visualization	1 GW 4	Devices may be assigned to any receive
tended block			boxes.
2 to 4 devices with ex-	Visualization and	2 GW 4	The first GW 4 is responsible for the
tended block	remote control		transmission of the visualization data only
			(only receiver).
			The second GW 4 is responsible for re-
			mote control only (no extended blocks,
			Device no. 1 is to be assigned to receive
			box no. 1 and so on).
5 to 8 devices with ex-	Visualization	2 GW 4	Devices may be assigned to any receive
tended block			boxes.
5 to 8 devices with ex-	Visualization and	3 GW 4	The first and second GW 4 is responsible
tended block	remote control		for the transmission of the visualization
			data only (only receiver).
			The third GW 4 is responsible for remote
			control only (no extended blocks, Device
			no. 1 is to be assigned to receive box no. 1
			and so on).
More than 8 devices	Visualization	One GW 4 is re-	Devices may be assigned to any receive
with 70 data words		quired per 8 devic-	boxes.
		es	Remote control is not possible.
More than 8 devices	Visualization	One GW 4 is re-	Devices may be assigned to any receive
with extended block		quired per 4 devic-	boxes.
		es	Remote control is not possible.

Exception:

5 devices with ex- tended block	Visualization and remote control	2 GW 4	The first GW 4 is responsible for the transmission of the visualization data of the devices 1 to 4 only (only receiver). The second GW 4 is responsible for remote control of the units 1 to 5 as well as for the visualization of the 5 th device (block 3 extended, device no. 1 is assigned to receive box no. 1, device no. 2 is assigned to box no. 2 (standard).
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Appendix C. Data Assignment Table

Receiving Table of the GW 4

Profibus receiving byte	3964	Modbue	without expanded blocks	with expanded blocks
for packet preselection see below	3904	address GW4	without expanded blocks	will expanded blocks
8.9	DB11,100		Bit 15 is set, if valid CAN messages are received on the CAN ID of block 1.	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 1.
10.11	DB11,101	2	Mux 0 word 1 of the data received on the CAN ID of block 1	Mux 0 word 1 of the data received on the CAN ID of block 1
12.13	DB11,102	3	Mux 0 word 2 of the data received on the CAN ID of block 1	Mux 0 word 2 of the data received on the CAN ID of block 1
14.15	DB11,103	4	Mux 0 word 3 of the data received on the CAN ID of block 1	Mux 0 word 3 of the data received on the CAN ID of block 1
16.17	DB11,104	5	Mux 1 word 1 of the data received on the CAN ID of block 1	Mux 1 word 1 of the data received on the CAN ID of block 1
18.19	DB11,105	6	Mux 1 word 2 of the data received on the CAN ID of block 1	Mux 1 word 2 of the data received on the CAN ID of block 1
20.21	DB11,106	7	Mux 1 word 3 of the data received on the CAN ID of block 1	Mux 1 word 3 of the data received on the CAN ID of block 1
22.23 24.25	DB11,107 DB11,108	8 9	Mux 2 word 1 of the data received on the CAN ID of block 1 Mux 2 word 2 of the data received on the CAN ID of block 1	Mux 2 word 1 of the data received on the CAN ID of block 1 Mux 2 word 2 of the data received on the CAN ID of block 1
24.23	DB11,108 DB11,109	10	Mux 2 word 3 of the data received on the CAN ID of block 1 Mux 2 word 3 of the data received on the CAN ID of block 1	Mux 2 word 3 of the data received on the CAN ID of block 1 Mux 2 word 3 of the data received on the CAN ID of block 1
Packet 0 / Gen 1			wax 2 word 5 of the data received on the CAIV iD of block 1	wax 2 word 5 of the data received on the CAIV iD of block 1
	DB11,161	62	Mux 20 word 1 of the data received on the CAN ID of block 1	Mux 20 word 1 of the data received on the CAN ID of block 1
132.133	DB11,162	63	Mux 20 word 2 of the data received on the CAN ID of block 1	Mux 20 word 2 of the data received on the CAN ID of block 1
134.135	DB11,163	64	Mux 20 word 3 of the data received on the CAN ID of block 1	Mux 20 word 3 of the data received on the CAN ID of block 1
136.137	DB21,164	65	Mux 21 word 1 of the data received on the CAN ID of block 1	Mux 21 word 1 of the data received on the CAN ID of block 1
138.139	DB21,165	66	Mux 21 word 2 of the data received on the CAN ID of block 1	Mux 21 word 2 of the data received on the CAN ID of block 1
140.141	DB21,166	67	Mux 21 word 3 of the data received on the CAN ID of block 1	Mux 21 word 3 of the data received on the CAN ID of block 1
142.143	DB21,167	68	Mux 22 word 1 of the data received on the CAN ID of block 1	Mux 22 word 1 of the data received on the CAN ID of block 1
144.145	DB21,168	69 70	Mux 22 word 2 of the data received on the CAN ID of block 1	Mux 22 word 2 of the data received on the CAN ID of block 1
146.147	DB21,169	70	Mux 22 word 3 of the data received on the CAN ID of block 1	Mux 22 word 3 of the data received on the CAN ID of block 1
8.9	DB12,100	71	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 2.	Mux 23 word 1 of the data received on the CAN ID of block 1
	DB12,101	72	Mux 0 word 1 of the data received on the CAN ID of block 2	Mux 23 word 2 of the data received on the CAN ID of block 1
	DB12,102	73	Mux 0 word 2 of the data received on the CAN ID of block 2 Mux 0 word 2 of the data received on the CAN ID of block 2	Mux 23 word 3 of the data received on the CAN ID of block 1 Mux 23 word 3 of the data received on the CAN ID of block 1
	DB12,103	74	Mux 0 word 3 of the data received on the CAN ID of block 2	Mux 24 word 1 of the data received on the CAN ID of block 1
	DB12,104	75	Mux 1 word 1 of the data received on the CAN ID of block 2	Mux 24 word 2 of the data received on the CAN ID of block 1
	DB12,105	76	Mux 1 word 2 of the data received on the CAN ID of block 2	Mux 24 word 3 of the data received on the CAN ID of block 1
	DB12,106	77	Mux 1 word 3 of the data received on the CAN ID of block 2	Mux 25 word 1 of the data received on the CAN ID of block 1
	DB12,107	78	Mux 2 word 1 of the data received on the CAN ID of block 2	Mux 25 word 2 of the data received on the CAN ID of block 1
	DB12,108	79	Mux 2 word 2 of the data received on the CAN ID of block 2	Mux 25 word 3 of the data received on the CAN ID of block 1
	DB12,109	80	Mux 2 word 3 of the data received on the CAN ID of block 2	Mux 26 word 1 of the data received on the CAN ID of block 1
Packet 1 / Gen 2			 Mar 20 minut 2 of the data marked on the CAN ID of block 2	 Maria 44 marial 1 of the data marined on the CANID of block 1
	DB12,163	134 135	Mux 20 word 3 of the data received on the CAN ID of block 2 Mux 21 word 1 of the data received on the CAN ID of block 2	Mux 44 word 1 of the data received on the CAN ID of block 1 Mux 44 word 2 of the data received on the CAN ID of block 1
	DB22,164 DB22,165	135	Mux 21 word 2 of the data received on the CAN ID of block 2 Mux 21 word 2 of the data received on the CAN ID of block 2	Mux 44 word 2 of the data received on the CAN ID of block 1 Mux 44 word 3 of the data received on the CAN ID of block 1
	DB22,165 DB22,166	130	Mux 21 word 2 of the data received on the CAN ID of block 2 Mux 21 word 3 of the data received on the CAN ID of block 2	Mux 44 word 3 of the data received on the CAN ID of block 1 Mux 45 word 1 of the data received on the CAN ID of block 1
	DB22,167	138	Mux 22 word 1 of the data received on the CAN ID of block 2	Mux 45 word 2 of the data received on the CAN ID of block 1
	DB22,168	139	Mux 22 word 2 of the data received on the CAN ID of block 2	Mux 45 word 3 of the data received on the CAN ID of block 1
146.147	DB22,169	140	Mux 22 word 3 of the data received on the CAN ID of block 2	nicht benutzt
8.9	DB13,100	141	Bit 15 is set, if valid CAN messages are received on the CAN ID of	Bit 15 is set, if valid CAN messages are received on the CAN ID of
			block 3.	block 3.
10.11	DB13,101	142	Mux 0 word 1 of the data received on the CAN ID of block 3	Mux 0 word 1 of the data received on the CAN ID of block 3
	DB13,102	143	Mux 0 word 2 of the data received on the CAN ID of block 3	Mux 0 word 2 of the data received on the CAN ID of block 3
	DB13,103	144	Mux 0 word 3 of the data received on the CAN ID of block 3	Mux 0 word 3 of the data received on the CAN ID of block 3
	DB13,104 DB13,105	145 146	Mux 1 word 1 of the data received on the CAN ID of block 3 Mux 1 word 2 of the data received on the CAN ID of block 3	Mux 1 word 1 of the data received on the CAN ID of block 3 Mux 1 word 2 of the data received on the CAN ID of block 3
	DB13,105 DB13,106	140	Mux 1 word 2 of the data received on the CAN ID of block 3 Mux 1 word 3 of the data received on the CAN ID of block 3	Mux 1 word 3 of the data received on the CAN ID of block 3 Mux 1 word 3 of the data received on the CAN ID of block 3
	DB13,100 DB13,107	147	Mux 1 word 3 of the data received on the CAN ID of block 3 Mux 2 word 1 of the data received on the CAN ID of block 3	Mux 2 word 1 of the data received on the CAN ID of block 3 Mux 2 word 1 of the data received on the CAN ID of block 3
	DB13,108	149	Mux 2 word 2 of the data received on the CAN ID of block 3	Mux 2 word 2 of the data received on the CAN ID of block 3
	DB13,109	150	Mux 2 word 3 of the data received on the CAN ID of block 3	Mux 2 word 3 of the data received on the CAN ID of block 3
Packet 2 / Gen 3				
	DB13,161	202	Mux 20 word 1 of the data received on the CAN ID of block 3	Mux 20 word 1 of the data received on the CAN ID of block 3
	DB13,162	203	Mux 20 word 2 of the data received on the CAN ID of block 3	Mux 20 word 2 of the data received on the CAN ID of block 3
	DB13,163	204	Mux 20 word 3 of the data received on the CAN ID of block 3	Mux 20 word 3 of the data received on the CAN ID of block 3
	DB23,164	205	Mux 21 word 1 of the data received on the CAN ID of block 3	Mux 21 word 1 of the data received on the CAN ID of block 3
	DB23,165	206	Mux 21 word 2 of the data received on the CAN ID of block 3	Mux 21 word 2 of the data received on the CAN ID of block 3
	DB23,166	207	Mux 21 word 3 of the data received on the CAN ID of block 3	Mux 21 word 3 of the data received on the CAN ID of block 3
	DB23,167 DB23,168	208 209	Mux 22 word 1 of the data received on the CAN ID of block 3 Mux 22 word 2 of the data received on the CAN ID of block 3	Mux 22 word 1 of the data received on the CAN ID of block 3 Mux 22 word 2 of the data received on the CAN ID of block 3
146.147	DB23,168 DB23,169	209	Mux 22 word 2 of the data received on the CAN ID of block 3 Mux 22 word 3 of the data received on the CAN ID of block 3	Mux 22 word 2 of the data received on the CAN ID of block 3 Mux 22 word 3 of the data received on the CAN ID of block 3
8.9	DB14,100	210	Bit 15 is set, if valid CAN messages are received on the CAN ID of	Mux 22 word 1 of the data received on the CAN ID of block 3
	.,		block 4.	
10.11	DB14,101	212	Mux 0 word 1 of the data received on the CAN ID of block 4	Mux 23 word 2 of the data received on the CAN ID of block 3
	DB14,102	213	Mux 0 word 2 of the data received on the CAN ID of block 4	Mux 23 word 3 of the data received on the CAN ID of block 3
	DB14,103	214	Mux 0 word 3 of the data received on the CAN ID of block 4	Mux 24 word 1 of the data received on the CAN ID of block 3
	DB14,104	215	Mux 1 word 1 of the data received on the CAN ID of block 4	Mux 24 word 2 of the data received on the CAN ID of block 3
	DB14,105	216	Mux 1 word 2 of the data received on the CAN ID of block 4	Mux 24 word 3 of the data received on the CAN ID of block 3
	DB14,106	217	Mux 1 word 3 of the data received on the CAN ID of block 4 Mux 2 word 1 of the data received on the CAN ID of block 4	Mux 25 word 1 of the data received on the CAN ID of block 3 Mux 25 word 2 of the data received on the CAN ID of block 3
	DB14,107	218	Mux 2 word 1 of the data received on the CAN ID of block 4	Mux 25 word 2 of the data received on the CAN ID of block 3

see below	3964	Modbus address GW4	without expanded blocks	with expanded blocks
	DB14,108 DB14,109	219 220	Mux 2 word 2 of the data received on the CAN ID of block 4 Mux 2 word 3 of the data received on the CAN ID of block 4	Mux 25 word 3 of the data received on the CAN ID of block 3 Mux 26 word 1 of the data received on the CAN ID of block 3
Packet 3 / Gen 4				
	DB14,163	274	Mux 20 word 3 of the data received on the CAN ID of block 4	Mux 44 word 1 of the data received on the CAN ID of block 3
	DB24,164	275	Mux 21 word 1 of the data received on the CAN ID of block 4	Mux 44 word 2 of the data received on the CAN ID of block 3
	DB24,165	276	Mux 21 word 2 of the data received on the CAN ID of block 4	Mux 44 word 3 of the data received on the CAN ID of block 3
	DB24,166	277	Mux 21 word 3 of the data received on the CAN ID of block 4	Mux 45 word 1 of the data received on the CAN ID of block 3
	DB24,167	278	Mux 22 word 1 of the data received on the CAN ID of block 4	Mux 45 word 2 of the data received on the CAN ID of block 3
	DB24,168	279	Mux 22 word 2 of the data received on the CAN ID of block 4	Mux 45 word 3 of the data received on the CAN ID of block 3
	DB24,169	280	Mux 22 word 3 of the data received on the CAN ID of block 4	nicht benutzt
	DB15,100	281	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 5.	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 5.
	DB15,101	282	Mux 0 word 1 of the data received on the CAN ID of block 5	Mux 0 word 1 of the data received on the CAN ID of block 5
	DB15,102	283	Mux 0 word 2 of the data received on the CAN ID of block 5	Mux 0 word 2 of the data received on the CAN ID of block 5
	DB15,103	284	Mux 0 word 3 of the data received on the CAN ID of block 5	Mux 0 word 3 of the data received on the CAN ID of block 5
	DB15,104	285	Mux 1 word 1 of the data received on the CAN ID of block 5	Mux 1 word 1 of the data received on the CAN ID of block 5
	DB15,105	286	Mux 1 word 2 of the data received on the CAN ID of block 5	Mux 1 word 2 of the data received on the CAN ID of block 5
	DB15,106	287	Mux 1 word 3 of the data received on the CAN ID of block 5	Mux 1 word 3 of the data received on the CAN ID of block 5
	DB15,107	288	Mux 2 word 1 of the data received on the CAN ID of block 5	Mux 2 word 1 of the data received on the CAN ID of block 5
	DB15,108	289	Mux 2 word 2 of the data received on the CAN ID of block 5	Mux 2 word 2 of the data received on the CAN ID of block 5
	DB15,109	290	Mux 2 word 3 of the data received on the CAN ID of block 5	Mux 2 word 3 of the data received on the CAN ID of block 5
acket 4 / Gen 5				
	DB15,161	342	Mux 20 word 1 of the data received on the CAN ID of block 5	Mux 20 word 1 of the data received on the CAN ID of block 5
	DB15,162	343	Mux 20 word 2 of the data received on the CAN ID of block 5	Mux 20 word 2 of the data received on the CAN ID of block 5
	DB15,163	344	Mux 20 word 3 of the data received on the CAN ID of block 5	Mux 20 word 3 of the data received on the CAN ID of block 5
	DB25,164	345	Mux 21 word 1 of the data received on the CAN ID of block 5	Mux 21 word 1 of the data received on the CAN ID of block 5
	DB25,165	346	Mux 21 word 2 of the data received on the CAN ID of block 5	Mux 21 word 2 of the data received on the CAN ID of block 5
	DB25,166	347	Mux 21 word 3 of the data received on the CAN ID of block 5	Mux 21 word 3 of the data received on the CAN ID of block 5
	DB25,167	348	Mux 22 word 1 of the data received on the CAN ID of block 5	Mux 22 word 1 of the data received on the CAN ID of block 5
	DB25,168	349	Mux 22 word 2 of the data received on the CAN ID of block 5	Mux 22 word 2 of the data received on the CAN ID of block 5
	DB25,169	350	Mux 22 word 3 of the data received on the CAN ID of block 5	Mux 22 word 3 of the data received on the CAN ID of block 5
8.9	DB16,100	351	Bit 15 is set, if valid CAN messages are received on the CAN ID of	Mux 23 word 1 of the data received on the CAN ID of block 5
			block 6.	
	DB16,101	352	Mux 0 word 1 of the data received on the CAN ID of block 6	Mux 23 word 2 of the data received on the CAN ID of block 5
	DB16,102	353	Mux 0 word 2 of the data received on the CAN ID of block 6	Mux 23 word 3 of the data received on the CAN ID of block 5
	DB16,103	354	Mux 0 word 3 of the data received on the CAN ID of block 6	Mux 24 word 1 of the data received on the CAN ID of block 5
	DB16,104	355	Mux 1 word 1 of the data received on the CAN ID of block 6	Mux 24 word 2 of the data received on the CAN ID of block 5
	DB16,105	356	Mux 1 word 2 of the data received on the CAN ID of block 6	Mux 24 word 3 of the data received on the CAN ID of block 5
	DB16,106	357	Mux 1 word 3 of the data received on the CAN ID of block 6	Mux 25 word 1 of the data received on the CAN ID of block 5
	DB16,107	358	Mux 2 word 1 of the data received on the CAN ID of block 6	Mux 25 word 2 of the data received on the CAN ID of block 5
	DB16,108	359	Mux 2 word 2 of the data received on the CAN ID of block 6	Mux 25 word 3 of the data received on the CAN ID of block 5
	DB16,109	360	Mux 2 word 3 of the data received on the CAN ID of block 6	Mux 26 word 1 of the data received on the CAN ID of block 5
Packet 5 / Gen 6				
	DB16,163	414	Mux 20 word 3 of the data received on the CAN ID of block 6	Mux 44 word 1 of the data received on the CAN ID of block 5
	DB26,164	415	Mux 21 word 1 of the data received on the CAN ID of block 6	Mux 44 word 2 of the data received on the CAN ID of block 5
	DB26,165	416	Mux 21 word 2 of the data received on the CAN ID of block 6	Mux 44 word 3 of the data received on the CAN ID of block 5
	DB26,166	417	Mux 21 word 3 of the data received on the CAN ID of block 6	Mux 45 word 1 of the data received on the CAN ID of block 5
	DB26,167	418	Mux 22 word 1 of the data received on the CAN ID of block 6	Mux 45 word 2 of the data received on the CAN ID of block 5
	DB26,168	419	Mux 22 word 2 of the data received on the CAN ID of block 6	Mux 45 word 3 of the data received on the CAN ID of block 5
			Mux 22 word 3 of the data received on the CAN ID of block 6	nicht benutzt
	DB26,169	420		
	DB26,169 DB17,100	420	Bit 15 is set, if valid CAN messages are received on the CAN ID of	Bit 15 is set, if valid CAN messages are received on the CAN ID of
8.9	DB17,100	421	block 7.	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 7.
8.9 10.11	DB17,100 DB17,101	421 422	block 7. Mux 0 word 1 of the data received on the CAN ID of block 7	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 7. Mux 0 word 1 of the data received on the CAN ID of block 7
8.9 10.11	DB17,100 DB17,101 DB17,102	421 422 423	block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7
8.9 10.11	DB17,100 DB17,101 DB17,102 DB17,103	421 422 423 424	block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7
8.9 10.11	DB17,100 DB17,101 DB17,102 DB17,103 DB17,104	421 422 423 424 425	block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7
8.9	DB17,100 DB17,101 DB17,102 DB17,103 DB17,104 DB17,105	421 422 423 424 425 426	block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7 Mux 1 word 2 of the data received on the CAN ID of block 7	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7 Mux 1 word 2 of the data received on the CAN ID of block 7
8.9	DB17,100 DB17,101 DB17,102 DB17,103 DB17,104 DB17,105 DB17,106	421 422 423 424 425 426 427	block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7 Mux 1 word 2 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7 Mux 1 word 2 of the data received on the CAN ID of block 7 Mux 1 word 2 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7
8.9	DB17,100 DB17,101 DB17,102 DB17,103 DB17,104 DB17,105 DB17,106 DB17,107	421 422 423 424 425 426 427 428	block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7 Mux 1 word 2 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 2 word 1 of the data received on the CAN ID of block 7	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 2 word 1 of the data received on the CAN ID of block 7
8.9	DB17,100 DB17,101 DB17,102 DB17,103 DB17,104 DB17,105 DB17,106 DB17,107 DB17,108	421 422 423 424 425 426 427 428 429	block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7 Mux 1 word 2 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 2 word 1 of the data received on the CAN ID of block 7 Mux 2 word 1 of the data received on the CAN ID of block 7 Mux 2 word 2 of the data received on the CAN ID of block 7 Mux 2 word 2 of the data received on the CAN ID of block 7	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7 Mux 1 word 2 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 2 word 1 of the data received on the CAN ID of block 7 Mux 2 word 1 of the data received on the CAN ID of block 7 Mux 2 word 2 of the data received on the CAN ID of block 7
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8.9 10.11 Packet 6 / Gen 7	DB17,100 DB17,101 DB17,102 DB17,103 DB17,104 DB17,106 DB17,106 DB17,107 DB17,108 DB17,109 	421 422 423 424 425 426 427 428 429 430 	block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7 Mux 1 word 2 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 2 word 1 of the data received on the CAN ID of block 7 Mux 2 word 2 of the data received on the CAN ID of block 7 Mux 2 word 3 of the data received on the CAN ID of block 7 Mux 2 word 3 of the data received on the CAN ID of block 7 Mux 2 word 3 of the data received on the CAN ID of block 7 	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7 Mux 1 word 2 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 2 word 1 of the data received on the CAN ID of block 7 Mux 2 word 1 of the data received on the CAN ID of block 7 Mux 2 word 2 of the data received on the CAN ID of block 7 Mux 2 word 3 of the data received on the CAN ID of block 7
8.9 10.11 Packet 6 / Gen 7	DB17,100 DB17,101 DB17,102 DB17,103 DB17,104 DB17,105 DB17,106 DB17,107 DB17,108 DB17,109 DB17,163	421 422 423 424 425 426 427 428 429 430 484	block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7 Mux 1 word 2 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 2 word 3 of the data received on the CAN ID of block 7 Mux 2 word 2 of the data received on the CAN ID of block 7 Mux 2 word 2 of the data received on the CAN ID of block 7 Mux 2 word 3 of the data received on the CAN ID of block 7 Mux 2 word 3 of the data received on the CAN ID of block 7 Mux 2 word 3 of the data received on the CAN ID of block 7 Mux 20 word 3 of the data received on the CAN ID of block 7	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7 Mux 1 word 2 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 2 word 1 of the data received on the CAN ID of block 7 Mux 2 word 2 of the data received on the CAN ID of block 7 Mux 2 word 3 of the data received on the CAN ID of block 7 Mux 2 word 3 of the data received on the CAN ID of block 7 Mux 2 word 3 of the data received on the CAN ID of block 7 Mux 20 word 3 of the data received on the CAN ID of block 7
8.9 10.11 Packet 6 / Gen 7	DB17,100 DB17,101 DB17,102 DB17,103 DB17,104 DB17,104 DB17,106 DB17,106 DB17,108 DB17,108 DB17,163 DB27,164	421 422 423 424 425 426 427 428 429 430 484 485	block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7 Mux 1 word 2 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 2 word 1 of the data received on the CAN ID of block 7 Mux 2 word 2 of the data received on the CAN ID of block 7 Mux 2 word 3 of the data received on the CAN ID of block 7 Mux 2 word 3 of the data received on the CAN ID of block 7 Mux 20 word 3 of the data received on the CAN ID of block 7 Mux 21 word 1 of the data received on the CAN ID of block 7 Mux 21 word 1 of the data received on the CAN ID of block 7	Bit 15 is set, if valid CAN messages are received on the CAN ID of block 7. Mux 0 word 1 of the data received on the CAN ID of block 7 Mux 0 word 2 of the data received on the CAN ID of block 7 Mux 0 word 3 of the data received on the CAN ID of block 7 Mux 1 word 1 of the data received on the CAN ID of block 7 Mux 1 word 2 of the data received on the CAN ID of block 7 Mux 1 word 2 of the data received on the CAN ID of block 7 Mux 1 word 3 of the data received on the CAN ID of block 7 Mux 2 word 1 of the data received on the CAN ID of block 7 Mux 2 word 2 of the data received on the CAN ID of block 7 Mux 2 word 3 of the data received on the CAN ID of block 7 Mux 20 word 3 of the data received on the CAN ID of block 7 Mux 20 word 3 of the data received on the CAN ID of block 7 Mux 20 word 3 of the data received on the CAN ID of block 7 Mux 21 word 1 of the data received on the CAN ID of block 7 Mux 21 word 1 of the data received on the CAN ID of block 7 Mux 21 word 1 of the data received on the CAN ID of block 7 Mux 21 word 1 of the data received on the CAN ID of block 7 Mux 21 word 1 of the data received on the CAN ID of block 7 Mux 21 word 1 of the data received on the CAN ID of block 7 Mux 21 word 1 of the data received on the CAN ID of block 7 Mux 21 word 1 of the data received on the CAN ID of block 7 Mux 21 word 1 of the data received on the CAN ID of block 7 Mux 21 word 1 of the data received on the CAN ID of block 7 Mux 21 word 1 of the data received on the CAN ID of block 7
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Transmission Table of the GW 4

D	e				
Pro	fibus send	2011		CW14	
	byte	3964		GW4 transmits	
		DB31,1	1	to the unit with No. 1 as set point power if data is recei	
	18.19	DB31,2	2	to the unit with No. 1 as set point power factor if data is recei	ved on block 1
	20.21	DB31,3	3	to the unit with No. 1 as control bits if data is recei	ved on block 1
	22.23	DB32,1	4	to the unit with No. 2 as set point power if data is recei	ved on block 2
	24.25	DB32,2	5	to the unit with No. 2 as set point power factor if data is recei	ved on block 2
	26.27	DB32,3	6	to the unit with No. 2 as control bits if data is recei	ved on block 2
	28.29	DB33,1	7	to the unit with No. 3 as set point power if data is recei	ved on block 3
	30.31	DB33,2	8	to the unit with No. 3 as set point power factor if data is recei	ved on block 3
	32.33	DB33,3	9	to the unit with No. 3 as control bits if data is recei	ved on block 3
	34.35	DB34,1	10	to the unit with No. 4 as set point power if data is recei	ved on block 4
	36.37	DB34,2	11	to the unit with No. 4 as set point power factor if data is recei	ved on block 4
	38.39	DB34,3	12	to the unit with No. 4 as control bits if data is recei	ved on block 4
	40.41	DB35,1	13	to the unit with No. 5 as set point power if data is recei	ved on block 5
	42.43	DB35,2	14	to the unit with No. 5 as set point power factor if data is recei	ved on block 5
	44.45	DB35,3	15	to the unit with No. 5 as control bits if data is recei	ved on block 5
	46.47	DB36,1	16	to the unit with No. 6 as set point power if data is recei	ved on block 6
	48.49	DB36,2	17	to the unit with No. 6 as set point power factor if data is recei	ved on block 6
	50.51	DB36,3	18	to the unit with No. 6 as control bits if data is recei	ved on block 6
	52.53	DB37,1	19	to the unit with No. 7 as set point power if data is recei	ved on block 7
	54.55	DB37,2	20	to the unit with No. 7 as set point power factor if data is recei	ved on block 7
	56.57	DB37,3	21	to the unit with No. 7 as control bits if data is recei	ved on block 7
	58.59	DB38,1	22	to the unit with No. 8 as set point power if data is recei	ved on block 8
	60.61	DB38.2	23	to the unit with No. 8 as set point power factor if data is recei	ved on block 8
		DB38.3	24	to the unit with No. 8 as control bits if data is recei	

Appendix D. Parameter List

Device number	P/N		Rev
Version			
Project			
Serial number	S/N	Date	

Opt.	Line 1	Parameter - Text -	Line 2	Setting range	Default setting	Customer settings

GENERAL CONFIG	URATION				
Sprache/Language	1	German/English	German	ΠGΠE	ΠGΠE
Remote control m	. at	1 to 20 s	3		
Transmit-ID		830/831	831		
Interface type		3964/3964R	3964R		
Baudrate		1,200 / 2,400 / 4,800 / 9,600 / 19,200 /	always the lowest		
		31,250 / 38,400 Baud		_	
Parity		none / even / odd	none	□n □e □o	□n □e □o
Protocol	Туре	1/2	1		
PROFIBUS station	l	0 to 126	0		
PROFIBUS watch-	dog	ON/OFF	OFF	□ ON □ OFF	□ ON □ OFF
Slave number		1 to 99	0		
Stopbits		1/2	1		
Delay to send	Modbus	0,2 to 50,0 ms	30 ms		
Timeout Y-Bus	monitoring	YES/NO	NO	$\Box Y \Box N$	$\Box Y \Box N$
Timeout Y-Bus	switchable	YES/NO	NO	$\Box Y \Box N$	$\Box Y \Box N$
Timeout-Y-Bus	max. delay	0 to 999 s	10 s		
receiver only		YES/NO	NO	$\Box Y \Box N$	$\Box Y \Box N$
Parameterize	time out	0,1 to 9,9 s	2		
DATA TRANSMISSI	on M ode				
Delete Hi-Byte	Word 2	YES/NO	YES	$\Box Y \Box N$	$\Box Y \Box N$
change CAN-IDs		YES/NO	NO	$\Box Y \Box N$	$\Box Y \Box N$
Block 1 receive	of CAN-ID	0 to 2047	801		
Block 2 receive	of CAN-ID	0 to 2047	802		
Block 3 receive	of CAN-ID	0 to 2047	803		
Block 4 receive	of CAN-ID	0 to 2047	804		
Block 5 receive	of CAN-ID	0 to 2047	805		
Block 6 receive	of CAN-ID	0 to 2047	806		
Block 7 receive	of CAN-ID	0 to 2047	807		
Block 8 receive	of CAN-ID	0 to 2047	808		
CONFIGURATION E	XPANSION			-	-
expand block 1		YES/NO	NO		
expand block 3		YES/NO	NO		
expand block 5		YES/NO	NO		
expand block 7		YES/NO	NO		

Appendix E. Declaration of Conformity

Conformity WOODWARD
Woodward Governor Company Leonhard-Reglerbau GmbH
Handwerkstrasse 29 70565 Stuttgart - Germany
Tel: +49 (711) 789 54-0 Fax: +49 (711) 789 54-100
E-mail: sales-stuttgart@woodward.com
GW 4 Series
INTERFACE CONVERTER FROM ONE HARDWARE TO ANOTHER AS WELL AS FROM ONE PROTOCOL TO ANOTHER. DIFFERENT COMBINATIONS AVAILABLE DEPENDING ON REQUIREMENTS.
The named product fulfills the following directives of the European Community:
Low Voltage Switchgear Directive 'Council directive on the harmonization of the laws of member state relating to electrical
equipment designed for use within certain voltage limits '
Electromagnetic Compatibility Directive "Council directive on the approximation of the laws of the member states relating to electromagnetic compatibility"
The conformity of the indicated product with the essential safety requirements of the standards is proven by the strict observation of the directives mentioned.
The company Woodward Governor Company Leonhard-Reglerbau GmbH, Handwerkstrasse 29, 70565 Stuttgart, Germany, has checked the product and provided it with the opposite indicated sign.
12.14

W.WOODWARD

Declaration of Conformity

Type: GW 4 Series

European Norm	German Norm	VDE Classification	Description
	w Voltage Switchge	ar Directive	
EN 50178	DIN EN 50178 Edition: 1998-04	VDE 0160	Electronic equipment for use in electrical power installations and their assembly into electrical power installations
89/336/EEC - E	lectromagnetic Com	patibility Directive	
EN 61000-6-4	DIN EN 61000-6-4 Edition: 2002-08	VDE 0639 Part 6-4	Electromagnetic compatibility (EMC) Part 6: Generic standards Section 4: Emission standard for industrial environments
EN 61000-6-2	DIN EN 61000-6-2 Edition: 2002-08	VDE 0839 Part 6-2	Electromagnetic compatibility (EMC); Part 6: Generic standards Section 2: Immunity for Industrial environments
EN 61000-4-2	DIN EN 61000-4-2 Edition: 2001-12	VDE 0847 Part 4-2	Electromagnetic compatibility (EMC) Part 4: Testing and measuring techniques Section 2: Electrostatic discharge immunity test
EN 61000-4-3	DIN EN 61000-4-3 Edilion: 2001-12	VDE 0847 Part 3	Electromagnetic compatibility (EMC) Basic Immunity Standard Part 4-3: Radiated, radio-frequency electromagnetic field – Immunity test.
EN 61000-4-4	DIN EN 61000-4-4 Edition: 2002-07	VDE 0847 Part 4-4	Electromagnetic compatibility (EMC) Part 4: Testing and measuring techniques Section 4: Electrical fast translent/burst immunity test
EN 61000-4-5	DIN EN 61000-4-5 Edition: 2001-12	VDE 0847 Part 4-5	Electromagnetic compatibility (EMC) Part 4: Testing and measuring techniques Section 5: Surge immunity test
EN 61000-4-6	DIN EN 61000-4-6 Edition: 2001-12	VDE 0843 Part 4-6	Electromagnetic compatibility Basic immunity standard Part 6: Immunity to conducted disturbances, induced by radio frequency fields
EN 55011	DIN EN 55011 Edition: 2000-05	VDE 0875 Part 11	Suppression of radio disturbances caused by electrical appliances and systems; Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment

Druck/Printed 02.08.2004 Selfe/Page 2 vor/of 2 © Woodward Governor Company Leonhard-Reglerbau GmbH Stutgart +49 (0) 711 789 54-0

Appendix F. Service Options

Product Service Options

The following factory options are available for servicing Woodward equipment, based on the standard Woodward Product and Service Warranty (5-01-1205) that is in effect at the time the product is purchased from Woodward or the service is performed. If you are experiencing problems with installation or unsatisfactory performance of an installed system, the following options are available:

- Consult the troubleshooting guide in the manual.
- Contact Woodward technical assistance (refer to "How to Contact Woodward" later in this chapter) and discuss your problem. In most cases, your problem can be resolved over the phone. If not, you can select which course of action you wish to pursue based on the available services listed in this section.

Returning Equipment for Repair

If a control (or any part of an electronic control) is to be returned to Woodward for repair, please contact Woodward in advance to obtain a Return Authorization Number. When shipping the unit(s), attach a tag with the following information:

- name and location where the control is installed;
- name and phone number of contact person;
- complete Woodward part numbers (P/N) and serial number (S/N);
- description of the problem;
- instructions describing the desired repair.



CAUTION

To prevent damage to electronic components caused by improper handling, read and observe the precautions in Woodward manual 82715, *Guide for Handling and Protection of Electronic Controls, Printed Circuit Boards, and Modules.*

Packing a Control

Use the following materials when returning a complete control:

- protective caps on any connectors;
- antistatic protective bags on all electronic modules;
- packing materials that will not damage the surface of the unit;
- at least 100 mm (4 inches) of tightly packed, industry-approved packing material;
- a packing carton with double walls;
- a strong tape around the outside of the carton for increased strength.

Return Authorization Number RAN

When returning equipment to Woodward, please telephone and ask for the Customer Service Department in Stuttgart [+49 (711) 789 54-0]. They will help expedite the processing of your order through our distributors or local service facility. To expedite the repair process, contact Woodward in advance to obtain a Return Authorization Number, and arrange for issue of a purchase order for the unit(s) to be repaired. No work can be started until a purchase order is received.



NOTE

We highly recommend that you make arrangement in advance for return shipments. Contact a Woodward customer service representative at +49 (711) 789 54-0 for instructions and for a Return Authorization Number.

Replacement Parts

When ordering replacement parts for controls, include the following information:

- the part numbers P/N (XXXX-XXX) that is on the enclosure nameplate;
- the unit serial number S/N, which is also on the nameplate.

How to Contact Woodward

Please contact following address if you have questions or if you want to send a product for repair:

Woodward GmbH Handwerkstrasse 29 70565 Stuttgart - Germany

 Phone:
 +49 (711) 789 54-0
 (8.00 - 16.30 German time)

 Fax:
 +49 (711) 789 54-100

 e-mail:
 stgt-info@woodward.com

For assistance outside Germany, call one of the following international Woodward facilities to obtain the address and phone number of the facility nearest your location where you will be able to get information and service.

Facility	Phone number
USĂ	+1 (970) 482 5811
India	+91 (129) 409 7100
Brazil	+55 (19) 3708 4800
Japan	+81 (476) 93 4661
The Netherlands	+31 (23) 566 1111

You can also contact the Woodward Customer Service Department or consult our worldwide directory on Woodward's website (**www.woodward.com**) for the name of your nearest Woodward distributor or service facility. [For worldwide directory information, go to **www.woodward.com/ic/locations**.]

Engineering Services

Woodward Industrial Controls Engineering Services offers the following after-sales support for Woodward products. For these services, you can contact us by telephone, by e-mail, or through the Woodward website.

- Technical support
- Product training
- Field service during commissioning

Technical Support is available through our many worldwide locations, through our authorized distributors, or through GE Global Controls Services, depending on the product. This service can assist you with technical questions or problem solving during normal business hours. Emergency assistance is also available during non-business hours by phoning our toll-free number and stating the urgency of your problem. For technical engineering support, please contact us via our toll-free or local phone numbers, e-mail us, or use our website and reference technical support.

Product Training is available on-site from several of our worldwide facilities, at your location, or from GE Global Controls Services, depending on the product. This training, conducted by experienced personnel, will assure that you will be able to maintain system reliability and availability. For information concerning training, please contact us via our toll-free or local phone numbers, e-mail us, or use our website and reference *customer training*.

Field Service engineering on-site support is available, depending on the product and location, from our facility in Colorado, or from one of many worldwide Woodward offices or authorized distributors. Field engineers are experienced on both Woodward products as well as on much of the non-Woodward equipment with which our products interface. For field service engineering assistance, please contact us via our toll-free or local phone numbers, e-mail us, or use our website and reference *field service*.

Technical Assistance

If you need to telephone for technical assistance, you will need to provide the following information. Please write it down here before phoning:

Contact			
Your company			
Your name			
Phone number			
Fax number			
Control (see name plat	e)		
Unit no. and revision:	P/N:	REV:	
Unit type	GW 4		
Serial number	S/N		
Description of your pr	oblem		

Please be sure you have a list of all parameters available. You can print this using LeoPC1. Additionally you can save the complete set of parameters (standard values) and send them to our Service department via e-mail.

We appreciate your comments about the content of our publications. Please send comments to: <u>stgt-documentation@woodward.com</u> Please include the manual number from the front cover of this publication.



Woodward GmbH Handwerkstrasse 29 - 70565 Stuttgart - Germany Phone +49 (0) 711 789 54-0 • Fax +49 (0) 711 789 54-100 stgt-info@woodward.com

Homepage

http://www.woodward.com/power

Woodward has company-owned plants, subsidiaries, and branches, as well as authorized distributors and other authorized service and sales facilities throughout the world.

Complete address/phone/fax/e-mail information for all locations is available on our website (www.woodward.com).

2008/11/Stuttgart