- Connects the Remote Process Interface to the control system/PLC/PC via MODBUS Plus
- Couples the internal CAN bus to the external MODBUS Plus
- Device installation permissible in zone 2
- Master function for the internal CAN bus
- External bus: MODBUS Plus
- External baud rate 1 MBd
- Standard interface RS 485
- Separate RS 232 connection on front side for system configuration, also directed to terminals for creating a subordinate monitoring system
- 24 V DC nominal supply voltage
- Redundant gateway possible
- EMC acc. to NAMUR NE 21

Function

The KSD2-GW-MPL translates the protocol of the internal CAN bus into the MODBUS Plus protocol of the external bus system and vice versa.

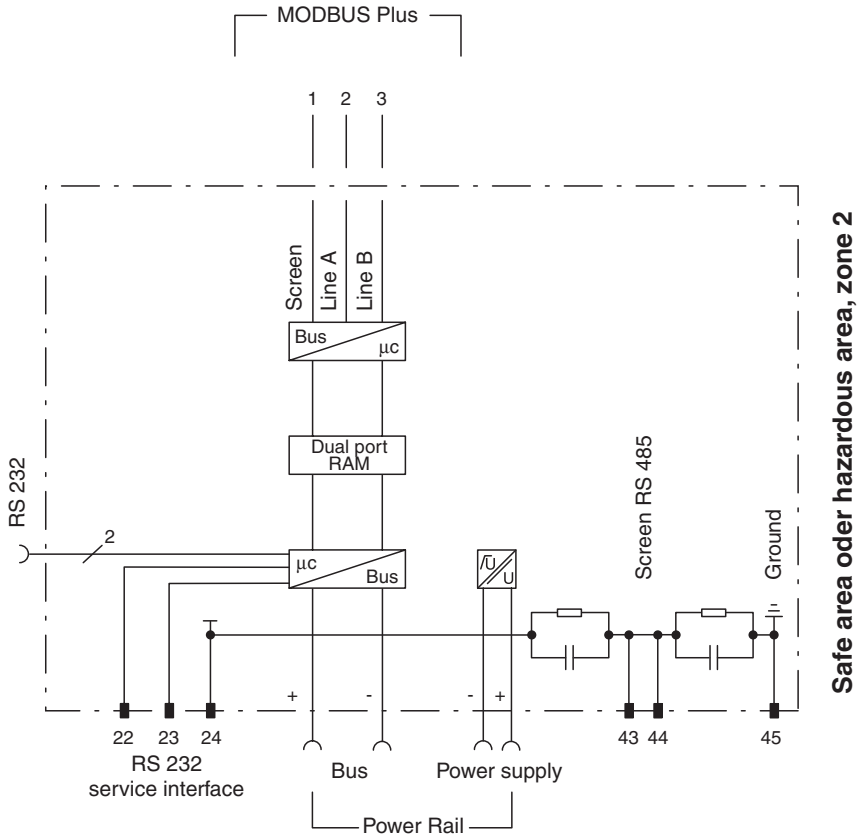
Up to 125 devices can be connected to a gateway via the Power Rail.

The operator has access independent of the control system, to the configuration data and parameters of all connected gateways and RPI devices by means of a PC and the **PACT***ware*™ control display.

Application

- Connection of the RPI with control system/PLC/PC via MODBUS Plus.
- Configuration interface for the RPI devices.

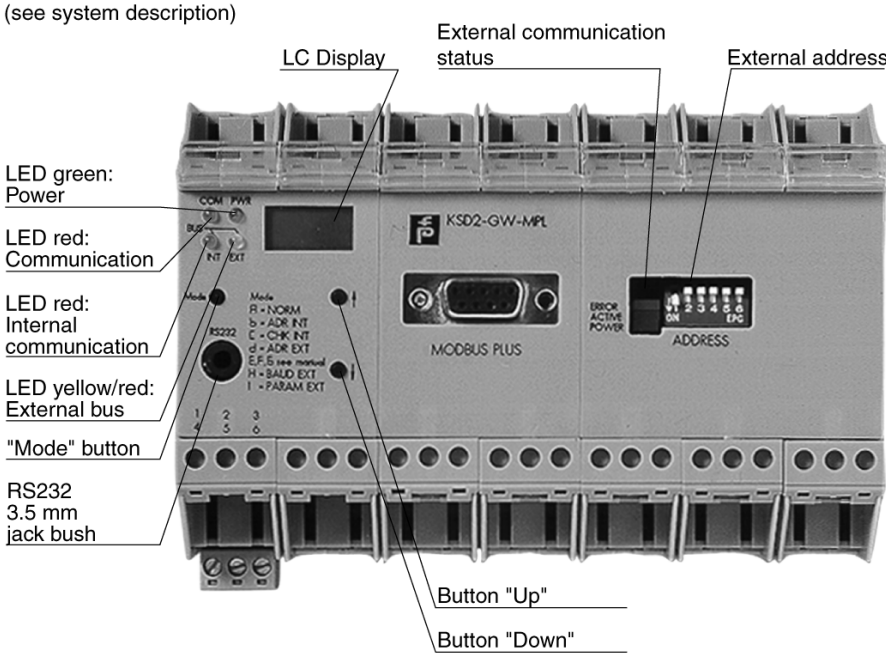
Connection



Composition

Front View

Housing type G
(see system description)



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Supply	
Connection	Power Rail
Rated voltage	20 ... 30 V DC
Ripple	< 10 %
Power consumption	4.8 W
Internal bus	
Connection	Power Rail
Interface	CAN protocol via Power Rail bus with up to 125 units
Cycle time	1 device 25 ms 125 devices with discrete input 60 ms 125 devices with discrete output 90 ms 125 devices with analogue input 75 ms 125 devices with analogue output 110 ms
External bus	
Connection	Sub-D socket, 9-pin
Interface	MODBUS Plus, RS 485 interface
Service interface	
Connection	terminals 22, 23, 24 and jack bush
Interface	RS 232
Redundancy	
Option	through the use of a second gateway
Electrical isolation	
Internal/external bus	basic insulation acc. to DIN EN 50178, rated insulation voltage 50 V_{eff} AC
Internal bus/power supply	not available
External bus/power supply	basic insulation acc. to DIN EN 50178, rated insulation voltage 50 V_{eff} AC
Service interface/internal bus	basic insulation acc. to DIN EN 50178, rated insulation voltage 50 V_{eff} AC
Service interface/external bus	basic insulation acc. to DIN EN 50178, rated insulation voltage 50 V_{eff} AC
Service interface/supply	basic insulation acc. to DIN EN 50178, rated insulation voltage 50 V_{eff} AC
Directive conformity	
Electromagnetic compatibility	
Directive 89/336/EC	EN 61326
Standard conformity	
Electrical isolation	EN 50178
Protection degree	IEC 60529
Ambient conditions	
Ambient temperature	-20 ... 60 °C (253 ... 333 K)
Damaging gas	acc. to ISA-S71.04-1985, severity level G3
Mechanical specifications	
Protection degree	IP20
Mass	approx. 505 g
Dimensions	140 x 100 x 115 mm (5.5 x 3.9 x 4.5 in)
Data for application in conjunction with hazardous areas	
Statement of conformity	TÜV 00 ATEX 1617 X (observe statement of conformity)
Group, category, type of protection, temperature classification	Ⓔx II 3G EEx nA II T4
Entity parameter	
Certification number	3000845
FM control drawing	No. 116-0150
Suitable for installation in division 2	yes
Safety parameter	
CSA control drawing	LR 36087-21
Control drawing	No. 116-0149

Supplementary information

EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity and instructions have to be observed. For information see www.pepperl-fuchs.com.

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Notes

Operation

The configuration, parameterisation, addressing, operation and fault detection is performed by means of PC and FDT compliant human machine interface **PACT***ware***™** via the RS 232 interface. Limited operation without a PC is possible with the control elements of the gateway and the devices.

Operating components

Jacks for the connection of a PC via K-ADP2 adapter for the configuration and parameterisation of the system. The PC may alternatively be connected to plug-in screw terminals 22, 23, 24, in case, e. g. that a PC-based separate monitor level is to be installed. The jack on the front panel and the screw terminals 22, 23, 24 may not be used simultaneously.

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