- 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.

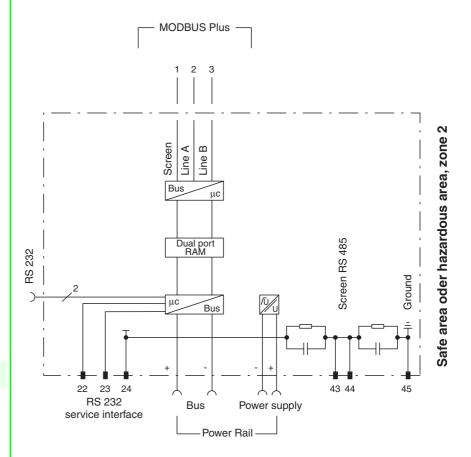
Up to 125 devices can be connected to a gateway via the Power Rail.

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*TM control display.

Application

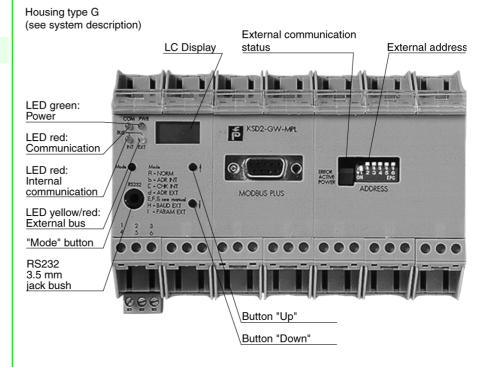
- Connection of the RPI with control system/PLC/PC via MODBUS Plus.
- Configuration interface for the RPI devices.

Connection



Composition

Front View



Connection Reduction Reference Service Interface Reduction Reference Referen	Supply	
Rated voltage 20 30 V DC Injury 2	•••	Power Pail
Proper consumption 4.8 W		
Rower Consumption	· ·	
Internal bus Connection Power Rail Interface Coxinection Power Rail Interface Coxine to Coxine to Coxine Power Rail bus with up to 125 units 1 device 25 ms 125 devices with discrete input 60 ms 125 devices with discrete output 90 ms 125 devices with discrete output 90 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 Interface Interface RS 232 Redundancy Option Through the use of a second gateway Electrical isolation Internal electromaphy Basic insulation acc. to DIN EN 50178, rated insulation voltage 50 V _{eff} AC Service interface/supply Directive conformity Electromagnetic compatibility Directive software Directive conformity Electromagnetic compatibility Directive offers (Electromagnetic compatibility)		
Connection	•	4.8 W
Interface Cycle time I device 25 ms		
Cycle time 1 device 25 ms 125 devices with discrete input 60 ms 125 devices with discrete output 90 ms 125 devices with discrete output 90 ms 125 devices with analogue output 110 ms External bus		
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		·
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Service interface Connection Interface RS 232 Redundancy Option Internale RS 232 Redundancy Option Internale Seterical siolation Internal bus/power supply External bus/power supply Discover Service interface/internal bus Service interface/external bus	Connection	Sub-D socket, 9-pin
Connection terminals 22, 23, 24 and jack bush RS 232 Redundancy Option through the use of a second gateway Electrical isolation Internal vestpower supply not available basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/internal bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage 50 Vest AC Service interface/external bus basic insulation acc. to DIN EN 50178, rated insulation voltage	Interface	MODBUS Plus, RS 485 interface
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CSA control drawing LR 36087-21	Suitable for installation in division 2	yes
•	Safety parameter	
Control drawing No. 116-0149	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.

KSD2-GW-MPL

Technical data KSD2-GW-MPL

Notes

Operation

The configuration, parameterisation, addressing, operation and fault detection is performed by means of PC and FDT compliant human machine interface **PACT***ware*TM 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.