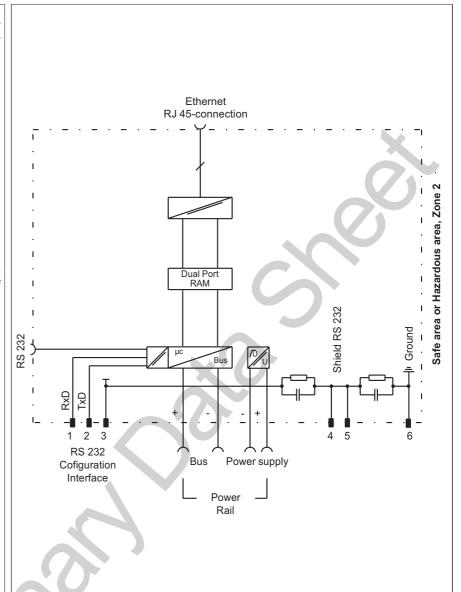
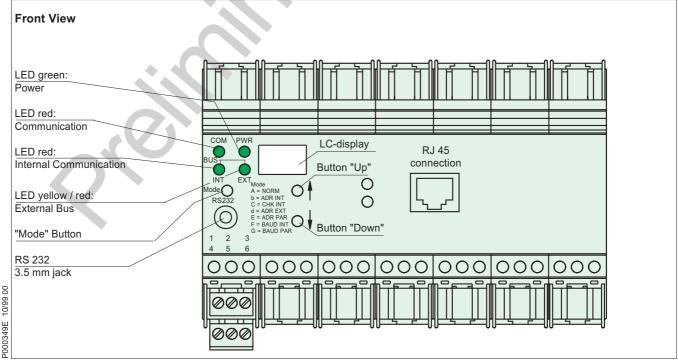


- Connects the Remote Process Interface to the control system via Ether-
- Couples the internal CAN Bus to the external Ethernet
- Device mounting allowable in Zone 2
- Connecting up to 16 RPI devices
- Master function for the internal CAN Bus
- External Bus: Ethernet
- Physical layer acc. to ANSI/IEEE 802.3, ISA 8802-3
- RJ 45 connection
- Separate RS232 connection on the front panel for the configuration of the system, also fed to terminals to install an additional monitoring and configuration network.
- DC 24 V supply voltage
- No redundancy of the gateway and the external bus possible
- EMC per NAMUR NE 21

The KSD2-GW-ETH.B gateway translates the protocols of the internal CAN Bus to the Modbus on Ethernet protocol of the external Bus system and vice versa. Up to 16 devices can be connected to a gateway via the Power Rail. The devices' addresses for the internal bus are in the range of 3 to 18 (including 3 and 18).





Subject to reasonable modifications due to technical advances

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### Technical data Power supply

Nominal voltage Ripple

Power consumption

### Input

#### Output

Cycle time, internal bus

#### **Galvanic** isolation

Internal bus / External bus Internal bus / Power supply External bus / Power supply RS 232-interface / Internal bus RS 232-interface / External bus RS 232-interface / Power supply Terminals 7, 8, 9 / 3.5 mm jack bush

#### Conformity to standard

Isolation

Climatic conditions

EMC / Electromagnetic compatibility

#### Weight

## Ambient temperature

DC 20 V ... 30 V

< 10% 2.8 W

CAN protocol via Power Rail Bus up to 16 devices

Ethernet satisfies Modicon Open Modbus/TCP spec. draft 2

1	Device	25 ms
16	Devices with digital input	29 ms
16	Devices with digital output	33 ms
16	Devices with analog input	31 ms
16	Devices with analog output	35 ms

Basic isolation acc. to DIN EN 50 178, design isolation voltage AC 50  $\rm V_{\rm eff}$  not present

Basic isolation acc. to DIN EN 50 178, design isolation voltage AC 50  $\rm V_{eff}$  Basic isolation acc. to DIN EN 50 178, design isolation voltage AC 50  $\rm V_{eff}$  Basic isolation acc. to DIN EN 50 178, design isolation voltage AC 50  $\rm V_{eff}$  Basic isolation acc. to DIN EN 50 178, design isolation voltage AC 50  $\rm V_{eff}$  not present

acc. to DIN EN 50 178

acc. to DIN IEC 721

acc. to DIN EN 50 081-2, DIN EN 50 082-2, NAMUR NE 21

≈ 500 g (≈ 17.5 oz) -20 °C ... +60 °C (-4 °F ... 140 °F)

See page 12 for additional information on mechanical and electrical standards of the K-System.

#### **Application**

## Operation

# **Operation Components**

Connection of the RPI to the control system via Ethernet. Configuration interface for the RPI devices.

The configuration, programming, addressing, operation and fault detection is performed by means of PC and the human machine interface via an RS232 interface (see RPI System manual). Limited operation without a PC is possible with the control elements of the gateway and the devices.

Jacks for the connection of a PC by means of a K-ADP2 adaptor for the configuration and programming of the system. The PC may alternatively, be connected to plug-in screw terminals 1, 2, 3, 4, 5 and 6 in case, i.e., that a separate PC based monitoring and configuration network is to be installed. The jack on the front panel and the screw terminals 1, 2 and 3 may not be used simultaneously.