Dimensions

Model Number

MVI-D2-2HRX

Control interface unit with serial interface

Features

- Serial interfaces RS 232 and RS 422, addressable
- Bus connection with up to 16 control interface units possible via RS 422
- 2 read/write heads connectable
- LEDs as function indicators

Function

The control interface unit controls the transmission of data between the higher-order computer and the read/write heads. Two read/write heads can be connected to one control interface unit.
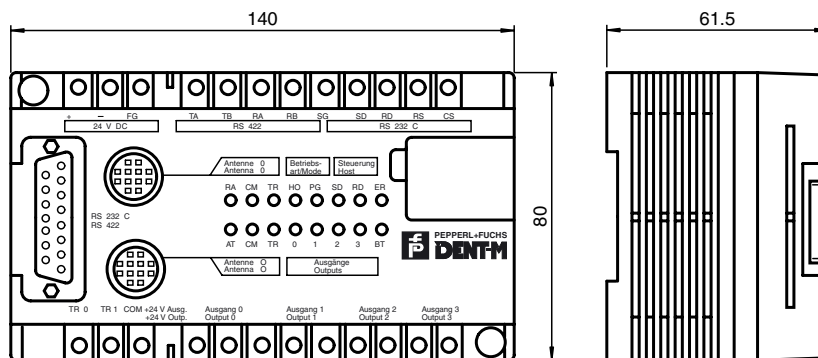
The control interface unit is connected via the serial interface to a higher-order control system. In addition to the RS 232 interface for a simple point-to-point connection, the control interface unit is also equipped with an RS 422 interface. These can be used to link up to 16 control interface units and, therefore, up to 32 read/write heads to a bus system.

The implemented functions in the analyser unit simplify the programming of the higher-order computer. Data integrity is ensured through the use of check codes.
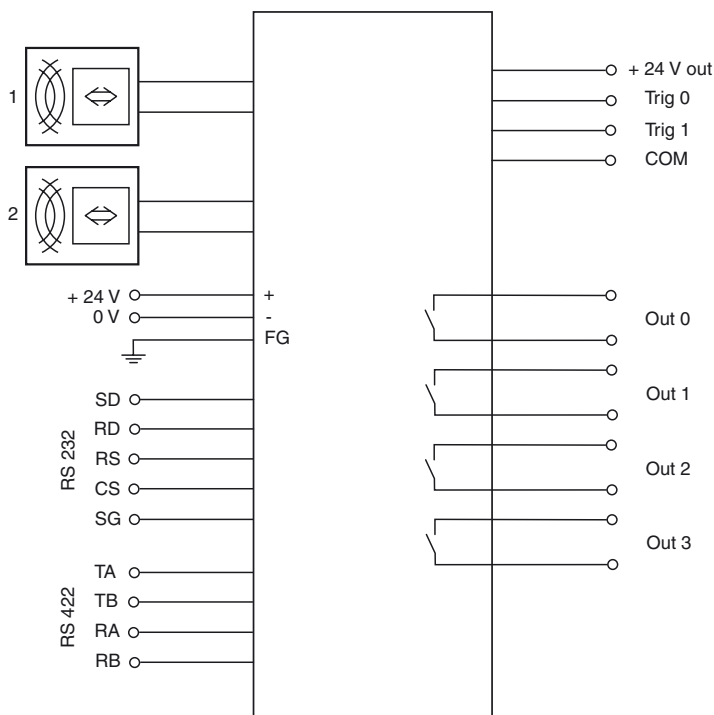
A total of 16 LEDs on the control interface unit make it possible to quickly perform function checks of the control interface unit, the serial interface and the connected read/write heads.

The control interface unit also has two trigger inputs for the two read/write heads as well as 4 relay outputs, which can be switched independently via commands.
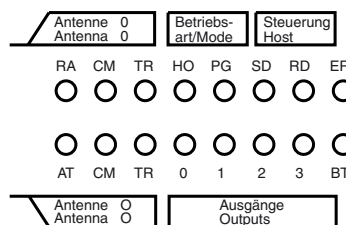
Electrical connection

Indicating / Operating means

Technical data

General specifications	
Number of read/Write heads	max. 2
Indicators/operating means	
LED HO	reserved
LED PG	reserved
LED SD	data transmission from MVI-D2-2HRX to computer
LED RD	data transmission from computer to MVI-D2-2HRX

LED ER		error condition
LEDs 0, 1, 2, 3		Output set
LED BT		battery voltage of battery in the MVI-D2-2HRX too low
Electrical specifications		
Rated operational voltage	U_e	24 V DC ± 10 %
Current consumption		1 A
Interface		
Physical		RS 232 point-to-point connection or RS 422 addressable with up to 16 control interface units
Transfer rate		300; 600; 1200; 2400; 4800; 9600; 19200 Bit/s
Cable length		≤ 15 m at RS 232 ≤ 1200 m for RS 422
Input		
Input type		1 trigger input per read/write head, electrically isolated
Output		
Output type		4 outputs, that can be individually replaced via commands
Ambient conditions		
Ambient temperature		-20 ... 55 °C (253 ... 328 K)
Storage temperature		-20 ... 70 °C (253 ... 343 K)
Climatic conditions		35 ... 90 % non-condensing
Shock and impact resistance		50 g, 11 ms, in all 3 spatial axes, with 3 positive and negative accelerations on each, according to IEC 68-2-27 and IEC 68-2-47
Mechanical specifications		
Protection degree		IP20 according to EN 60529
Connection		2 units MVH500-F15 or MVH2000-F15 2 round 10-pin sockets for read/write head connections, 15-pin sub-sockets for serial interface, 24 screw terminals
Material		PBT
Mass		approx. 400 g

Software

Communication with the identification system is very easy with the demo program IDENT 2005. It shows the system options and simplifies commissioning.

The demo program is included in the scope of delivery.

Matching system components

MVG-KFD2-B6
Bus coupler

MVG-KFD2-B5
Bus coupler

KHD2-MVI-AB2
Bus coupler