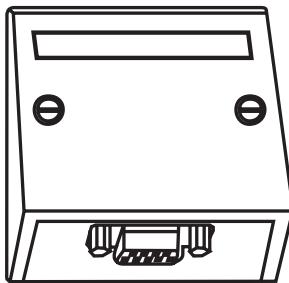


**System Design serial data interface 2, flush-mounted**

Colour	Article No.
white	681444
polar white	681419
vanilla	681482
ice blue	681488
light grey	681429
midnight blue	681478
dark brazil	681415
black grey	681469
aluminium	681460
stainless steel	681446

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**1. Function**

The INSTABUS data interface is used for connecting a programming or diagnostics device with an RS232 interface (e.g. a PC) to the INSTABUS.

**2. Installation**

The flush-mounted serial data interface is an application module in System Design and is screwed onto a flush-mounted bus coupler 2 (Art. No. 690299).

**i** The flush-mounted data interface must be completed with a flush-mounted bus coupler and System Design frame.

The data interface consists of two electrically isolated circuit sections. The power supply to the devices is carried out both from the bus coupler (bus) and the connected programming device e.g. a PC.

The connection to the programming device is implemented via the 9-pin D-SUB socket on the data interface. The connection to the programming device is achieved with a connecting cable of max. 15 m.

The interface of the connected device must be an RS232-compatible interface (also V.24 or DIN 66020) with a 9-pin or 25-pin D-SUB plug.

Only PCs with an RS232 interface with safety extra-low voltage (SELV)/PELV may be connected to the data interface.

This interface corresponds to the EIB definitions. In the case of a PC with a 3 V interface implemented in accordance with EIA262, the function cannot be guaranteed.

No software needs to be loaded into the bus coupler for operation of the interface. The operating software of the bus coupler 2 is automatically configured as an asynchronous serial interface with the FT 1.2 protocol.

The ETS application available enables trouble-free communication between the bus and the programming device. It deletes any applications that hinder communication which have been inadvertently loaded into the bus coupler.

**Labelling**

Labelling strips (Art. No. 395019) are available as accessories. They can be professionally provided with text and symbols using the Merten labelling software, Art. No. 615022.

### 3. Technical Data

#### PC

Nominal voltage:  $\pm 5$  V to  $\pm 15$  V SELV  
 Power consumption: approx. 10 mA

#### Bus

Nominal voltage: 24 V  
 Power consumption: approx. 4.5 mA  
 Insulation voltage: 2.5 kV  
 Transmission rate: max. 19.2 kbaud

#### Data level

RS232 inputs: 5 V  
 RS232 outputs: 3 V

Data cable length (RS232): max. 15 m

#### Ambient temperature

Operation: -5 °C to +45 °C  
 Storage: -25 °C to +55 °C  
 Transport: -25 °C to +70 °C

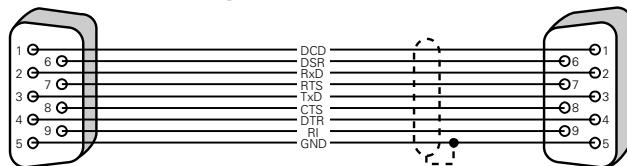
Max. humidity: 93 %

#### Connections

Bus coupler: 10-pole plug connector  
 Programming interface: 9-pin D-SUB socket for connection of a PC or RS232

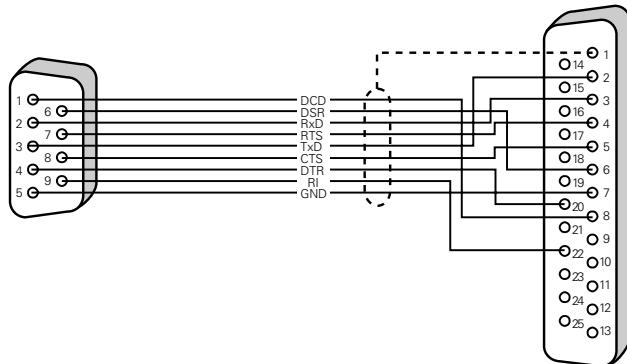
EC guidelines: corresponds to low voltage guideline 73/23/EEC;  
 corresponds to EMC guideline 89/336/EEC

### Connection example



Schnittstelle:  
 SubD-9 Stiftleiste

RS 232:  
 SubD-9 Buchsenleiste



Schnittstelle:  
 SubD-9 Stiftleiste

RS 232:  
 SubD-25 Buchsenleiste

### 4. Settings in the EIB Tool Software (ETS)

#### Selection in the product database

Manufacturer: Merten  
 Product family: 1.3 Interfaces/gateways  
 Product type: 1.3.09 System Design data interface  
 Media type: Twisted Pair  
 Product name: Serial data interface 2, flush-mounted  
 Order number: 6814xx