

## Dimensions

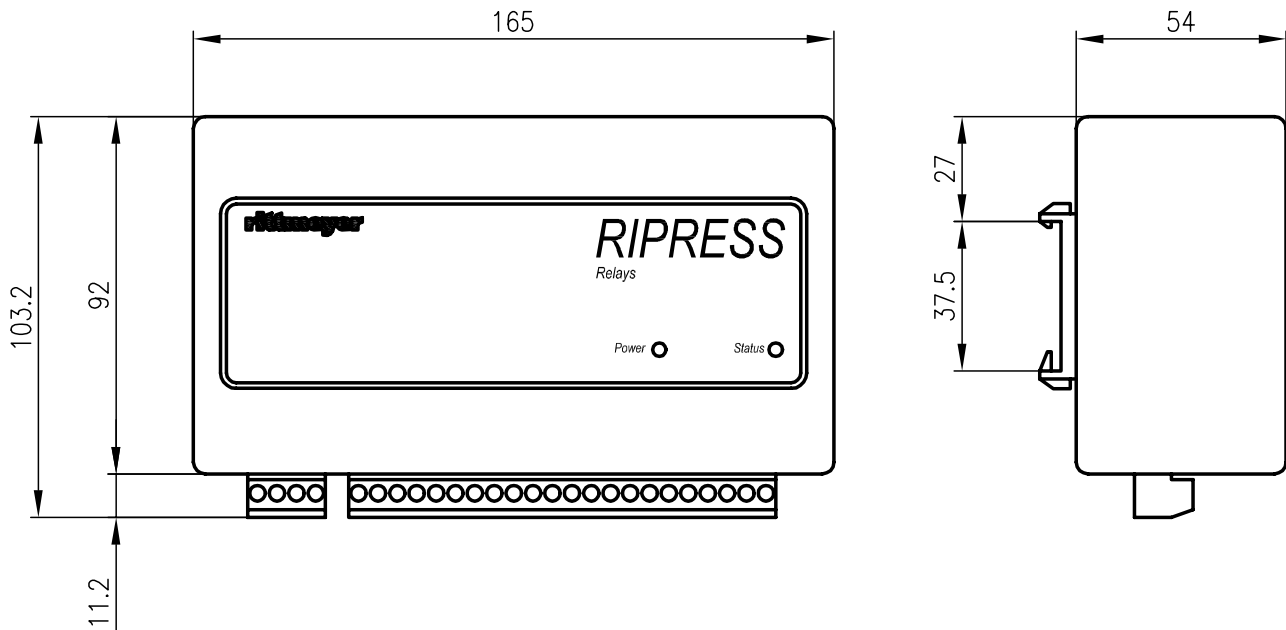


Figure 1: Front View, Side View

## Application

The measured value output RIPRESS Relays serve the parallel output of a measured value in binary, BCD or GRAY code.

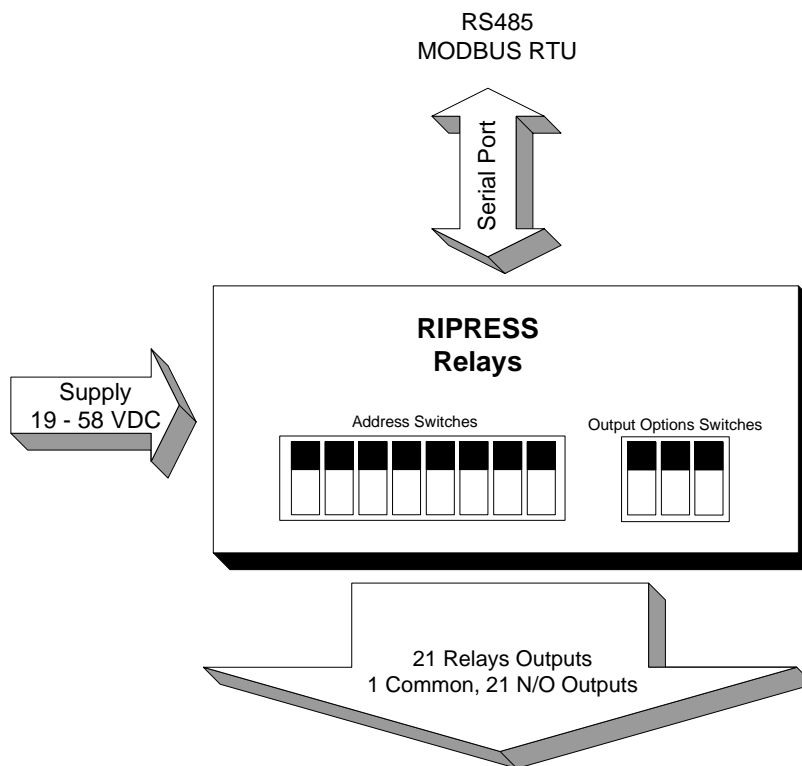
## Brief Description

The measured value output RIPRESS Relays (Slave) is connected to the RIPRESS Controller (Master) via RS485 (MODBUS RTU). It converts a measured value (raw or processed) into binary, BCD or GRAY code. Output is achieved via 21 relays with a common potential.

Up to four RIPRESS Relays can be connected to a RIPRESS Controller.

The measured value output RIPRESS Relays can also be used independently of the RIPRESS Controller. The corresponding MODBUS Mapping is recorded in the Data Sheet Software 21.220.00667705.001.

## Block Diagram



## Technical Data

### Construction

- Plastic housing IP 20
- Height: 92 mm, width: 165 mm, depth: 54 mm
- Weight: approx. 400 grams
- Mounting on 35 mm DIN rails (EN 50022-35)

### Power Supply

- Direct current: 19 ... 58 VDC / maximum approx. 3.5 W
- Polarity reversal protection

### Status LED

Power Green, lit when power supply present.

Status two-colour LED (green, red):

Green steady: OK / red flashing for warnings:  
1 flash: No Communications.

Red steady: Critical error / green flashing for error code:  
1 flash: Application Checksum error.

## Inputs

### Data Interface

- 1 serial interface RS485, MODBUS RTU Slave (9600 bps, 8 data bits, no parity, 2 stop bits).

## Outputs

### Relays

- 21 relays, common potential each with a make contact with 60 VDC / 0.25 A contact load.

## Environmental / Operating Conditions

- Operating temperature range: -20 ... +60°C
- Storage temperature range: -40 ... +80°C
- Protection class: IP20

## Quality Tests

The measured value output fulfils the requirements of the EU EMC directives (89/336/EWG) for noise immunity (EN 61000-6-2) and noise emissions (EN 61000-6-3).

## Internal Measured Value Processing

The received measured value is converted into the desired code. Output takes place either as a two's complement value with 21 bit or as an absolute value with 20 bit and bit 21 as sign Bit.

## Parameterisation

### General

The two DIP-switches Address (unit address) and Options (output code) are located on the rear of the unit under a sliding cover.

### Unit Address

Any address between 1 and 255 can be set.

On use with a RIPRESS Controller, the standard address for the first unit is 100 and 103 for the fourth unit.

Address

X	X	X	X	X	X	X	X	X	On Off Switch No.
7	6	5	4	3	2	1	0		
128	64	32	16	8	4	2	1	Weight	

Set address: 100

**Output Code**

Options

X	X	X	<b>On Off</b>
2	1	0	
			Switch No.
1	2	1	Weight

**Switch 0 and 1:** Code type: 0 = Binary  
 1 = BCD  
 2 = GRAY  
 3 = not used

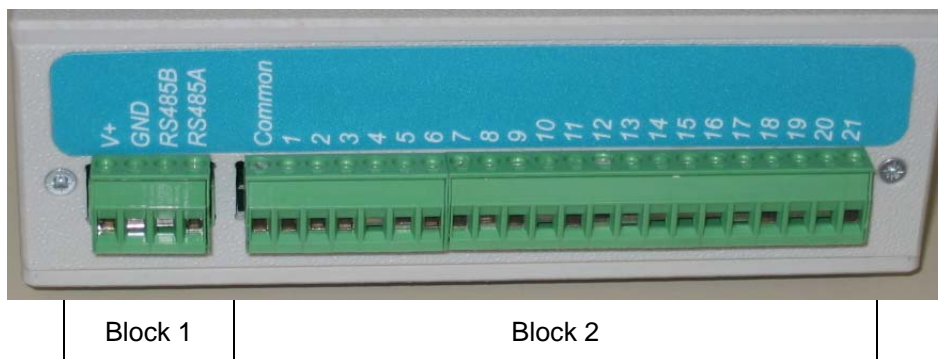
Set Code: BCD

**Switch 2:** Sign handling: 0 = two's complement value with 21 bit  
 1 = absolute value with 20 bit, bit 21 as sign bit

**Electrical Connections**

**General**

Connection is made by means of plug-in type screw terminals, 2.5 mm<sup>2</sup>.



**Block 1 contains:**

- Power supply 19 ... 58 VDC
- Interface RS485 (MODBUS RTU)

**Block 2 contains:**

- 21 relay outputs with common potential. Output 1 corresponds to bit 0, output 21 corresponds to bit 20.

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<b>rittmeier</b>	<b>Data Sheet Hardware</b>	DG DKap Stamm-Bez. Var Ind F Sp
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