

# PD51 - CONVERTER OF RS-232/RS-485 INTERFACES

## FEATURES:

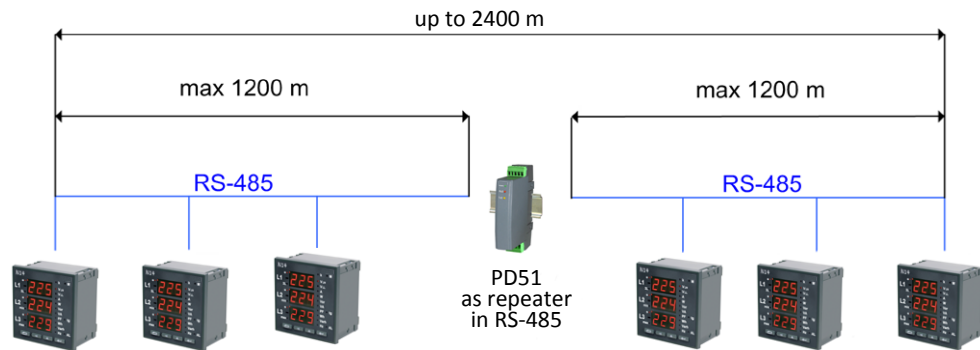
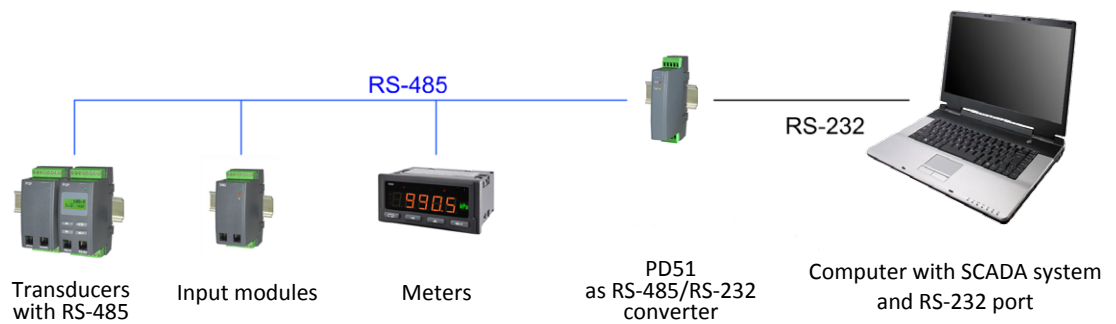
2 x  
1200m



CE

- Exchange of the RS-232 interface into industrial RS-485 interface
- Enables the bus range and the number of devices increase in the RS-485 network
- Ensures the automatic control of the data flow direction
- In order to protect devices at both sides of interfaces, a galvanic separation is applied in the converter.

## EXAMPLE OF APPLICATION



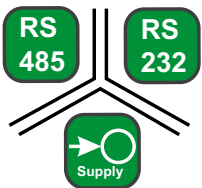
## INPUTS:

RS  
232

## OUTPUTS:

RS  
485

## GALVANIC ISOLATION:



## DIGITAL INTERFACE

| Interface type | Properties                           |  |
|----------------|--------------------------------------|--|
| RS-485/RS-232  | Transmission rate:                   | 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 Mb/s |
|                | Steering of the data flow direction: | automatic  |
|                | Working mode:                        | converter or repeater                                    |

## EXTERNAL FEATURES

|                    |                 |                          |
|--------------------|-----------------|--------------------------|
| Overall dimensions | 52 x 44 x 24 mm |                          |
| Weight             | 0.1 kg          | with packing             |
| Protection grade   | Housing: IP40   | from terminal side: IP20 |
| Fixing             | On a rail       |                          |

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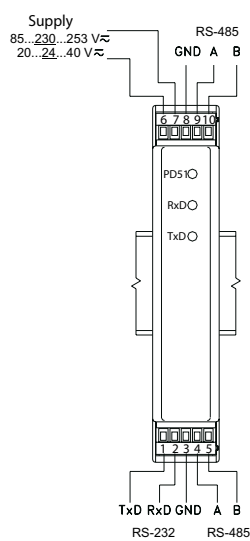
## RATED OPERATING CONDITIONS

|                                  |   |  |
|----------------------------------|---|--|
| Supply voltage                   | 7...35 V d.c. or<br>20...24...40 V a.c./d.c. or<br>85...230...253 V a.c./d.c. | Input power: ≤ 1.5 Va<br>Supply frequency:<br>40...50...440 Hz |
| Temperature                      | Ambient: 0...23...55°C  | Storage: 0...70 °C   |
| Relative humidity                | < 85%   |  |
| Operating position               | any   |  |
| External magnetic field          | 400 A/m   |  |
| Admissible sinusoidal vibrations | Frequency: 10..150 Hz   | Shift amplitude: ≤ 0.35 mm                                     |

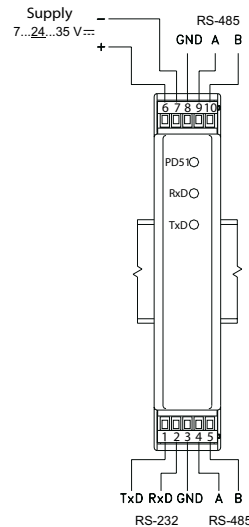
## SAFETY AND COMPATIBILITY REQUIREMENTS

|  |   |                      |
|--|---|----------------------|
| Electromagnetic compatibility            | Noise immunity  | acc. to EN 61000-6-2 |
|  | Fastness against supply decays                          | acc. to EN 61000-6-2 |
|  | Emission of radio electric perturbations                | acc. to EN 61000-6-4 |
| Pollution level                          | 2   | acc. to EN 61010-6-1 |
| Installation category                    | III   |                      |
| Maximum phase-to-earth operating voltage | For supply circuits: 300 V,<br>For other circuits: 50 V |                      |

## CONNECTION DIAGRAMS



Version A1 and A2



Version A3

## ORDERING

|  |    |    |   |
|--|----|----|---|
| Converter of RS-232/RS-485 interfaces        | XX | XX | X |
| <b>Supply voltage:</b>                       |    |    |   |
| on-rail version: 85...230...253 V a.c./d.c.  | A1 |    |   |
| 20...24...40 V a.c./d.c.                     | A2 |    |   |
| 7...24...35 V d.c.                           | A3 |    |   |
| <b>Version:</b>                              |    |    |   |
| standard                                     |    | 00 |   |
| custome - made *                             |    | XX |   |
| <b>Acceptance tests:</b>                     |    |    |   |
| without additional requirements              |    |    | 8 |
| with an extra quality inspection certificate |    |    | 7 |
| acc.to customer's request *                  |    |    | X |

\* after agreeing with the manufacturer

### Ordering example:

The code: **PD51 - A1 00 7** means:

**PD51** - Converter of PD51 type

**A1** - supply voltage: 85...230...253 V a.c./d.c.

**00** - standard version

**7** - with an extra quality inspection certificate

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