

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.

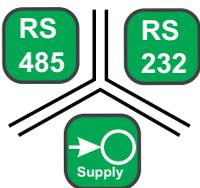
INPUTS:

RS
232

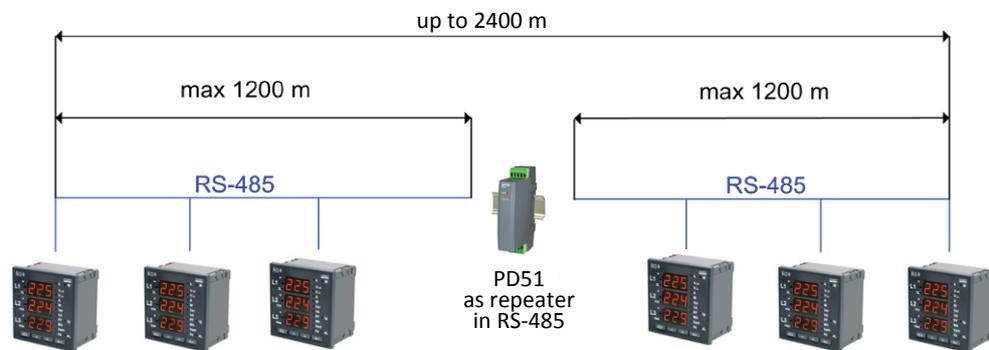
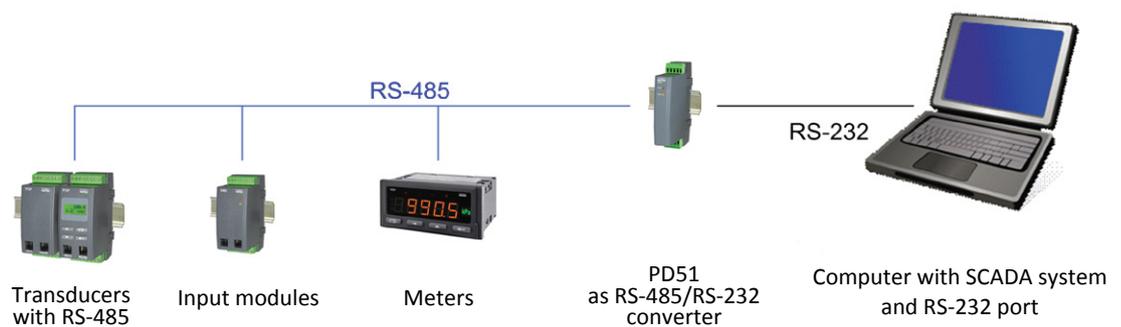
OUTPUTS:

RS
485

GALVANIC ISOLATION:



EXAMPLE OF APPLICATION



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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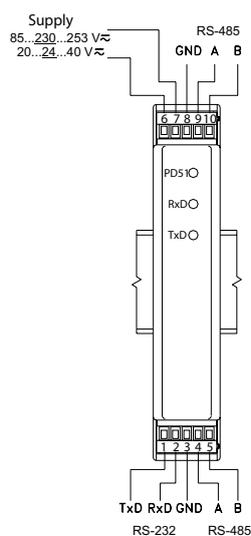
RATED OPERATING CONDITIONS

Supply voltage	7...35 V d.c. or 20...24...40 V a.c./d.c. or 85...230...253 V a.c./d.c.	Input power: ≤ 1.5 Va Supply frequency: 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

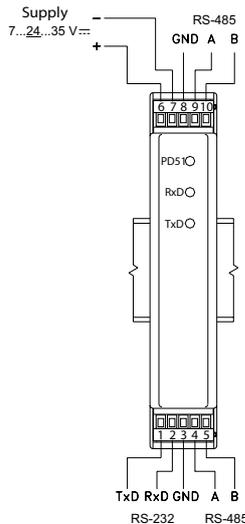
SAFETY AND COMPATIBILITY REQUIREMENTS

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, For other circuits: 50 V	

CONNECTION DIAGRAMS



Version A1 and A2



Version A3

ORDERING

Converter of RS-232/RS-485 interfaces	XX	XX	X
Supply voltage:			
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		
Version:			
standard		00	
custome - made *		XX	
Acceptance tests:			
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

For more information about LUMEL's products please visit our website:
www.lumel.com.pl

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