

PD8W CONVERTER OF RS-485/ETHERNET WI-FI INTERFACES

LUMEL

FEATURES:

UDP
protocol

RealPort
service

MOD
BUS
TCP

TCP
socket



- Enables the access to devices with RS-485 interfaces for master devices and SCADA applications through the Ethernet Wi-Fi network.
- Device configuration through any web browser.
- Different working modes:
 - TCP/IP socket,
 - Modbus TCP,
 - RealPort network service (resources connected to the computer, visible through the virtual port COM in the master computer),
 - UDP serial bridge (enables the connection of many parts of the MODBUS network in one whole connected through the Ethernet network).
- Configuration through USB port.
- Password protection.

INPUTS/OUTPUTS:

RS
232

RS
485

USB

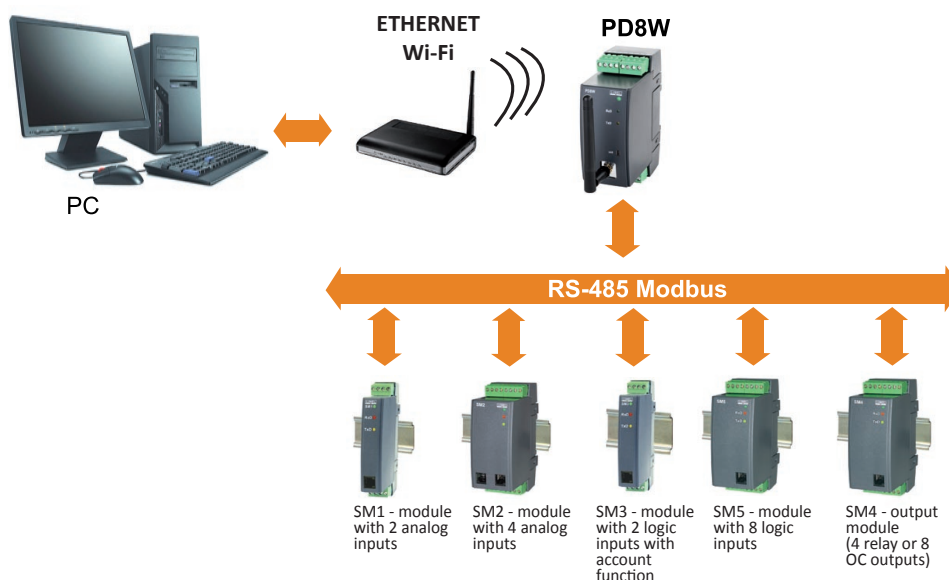


GALVANIC ISOLATION:

RS
485



EXAMPLE OF APPLICATION



DIGITAL INTERFACES

Interface type	Properties	
RS-485	Baud rate	9, 10, 11, 12 [bit]
	Baud rate of the RS-485 port	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bit/s
	Maximum response time for the query frame	1000 ms
	Transmission range	up to 1200 m at 9600 bit/s
Ethernet Wi-Fi	Type of interface	10/100 Base-T
	Transmission protocol	Digi RealPort®, TCP/IP, HTTP, ICMP, DHCP, ARP
	Baud rate	up to 11 Mbit/s
USB	Baud rate	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bit/s
	Transmission protocol	RCI

EXTERNAL FEATURES

Status and data flow indicators	5 diodes (supply, RxD, TxD, ACT, LNK)	
Overall dimensions	45 x 120 x 100 mm	
Weight	0.2 kg	with packing
Protection grade	housing: IP30	from terminal side: IP20
Fixing	on a rail	

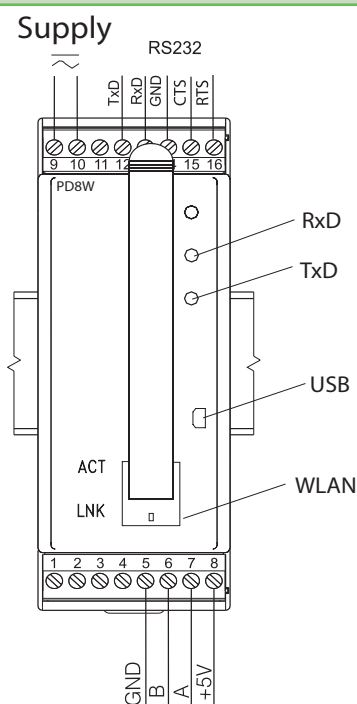
RATED OPERATING CONDITIONS

Supply voltage	85...230...253 V a.c./d.c. or 20...24...50 V a.c./d.c.	Input power: ≤ 5VA Supply frequency: 40...50...440 Hz
Temperature	ambient: -20...23...55°C	Storage: -20...70 °C
Relative humidity	< 85%	
Operating position	any	
External magnetic field	400 A/m	
Admissible sinusoidal vibrations	frequency: 10...150 Hz	Shift amplitude: ≤ 0.15 mm
Time of readiness obtainment since the device connection	≥ 16 s	

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 61010-1
Installation category	III	
Max.phase-to-earth operating voltage	for supply circuit: 300 V, for other circuits: 50 V	
Altitude a.s.l.	< 2000 m	

CONNECTION DIAGRAMS



RS-485

Fig.1 External connections of the PD8 converter

ORDERING CODE

PD8W -	X	XX	X	X
Supply voltage:				
85...253 V a.c./d.c.	1			
20...50 V a.c./d.c.	2			
Version:				
standard		00		
custom-made		XX		
Language:				
Polish			P	
English			E	
other*			X	
Acceptance tests:				
without extra requirements				0
with an extra quality inspection certificate				1
acc. to customer's request*				X

* - after agreeing with the manufacturer

Ordering example:

The code **PD8W - 1 00 E 1** means:

- PD8W** - module of PD8 type
- 1** - supply voltage: 85...253 V a.c./d.c.
- 00** - standard version
- E** - English version
- 1** - with an extra quality inspection certificate.

SEE ALSO:



Input and output modules



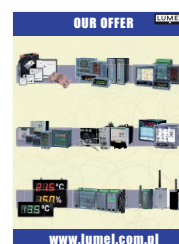
SM7 - radio transmission module



MR03 - high power radio transmission module



LUMEL - Proces software



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