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PRECISION INSTRUMENTATION

CONVERTERS & RECORDERS
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DATASHEET Issue 1

NEW PRODUCT



- Multifunction Meters
- Transducers & Isolators
- Temperature Controllers
- Converters & Recorders
- Digital Panel Meters
- Current Transformers
- kWh Energy Meters
- Analogue Panel Meters
- Shunts
- Digital Bargraphs
- Digital Multimeters
- Protection Relays
- Synchroscope Series
- Rotary Switches
- Power Supplies
- Test & Measurement

PD9W

CONVERTER OF RS-485 TO WI-FI/ ETHERNET INTERFACE

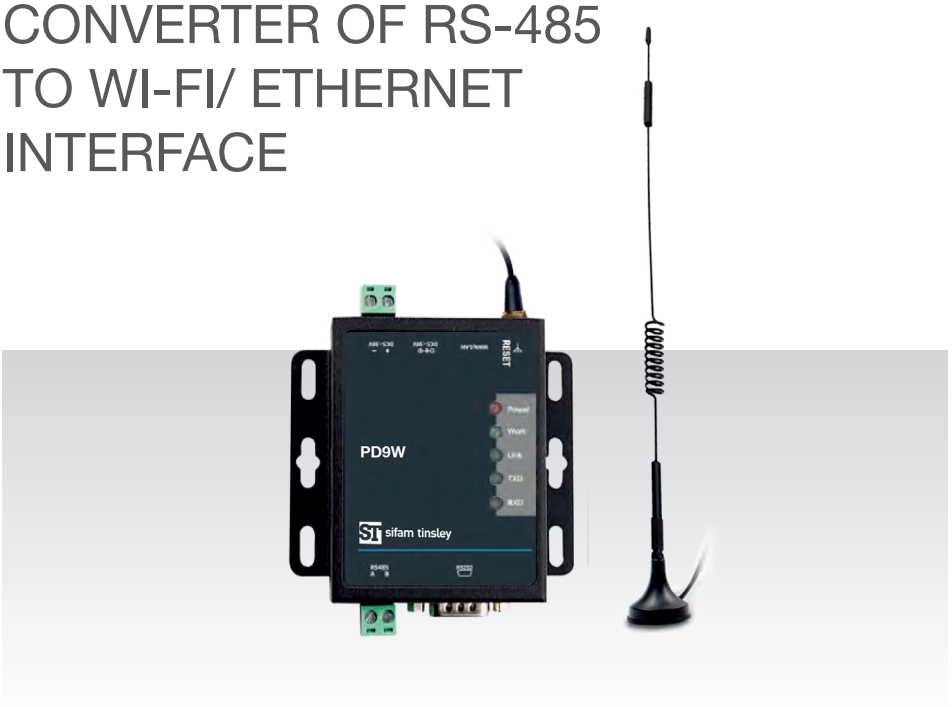
SUBJECT TO CHANGE WITHOUT NOTICE
This datasheet superseded all previous versions – please keep for future reference

PD9W

Product Features:

- 1x RS232 port for RTS/CTS signals
- 1x RS485
- 802.11b/g/n WiFi support
- 1x Ethernet WAN/LAN port
- Power supply 5-36V - power supply socket (5.5/2.1) + industrial power socket
- Electrostatic protection 15/8 kV
- DHCP support, dynamic or static IP
- Support STA/AP/AP+STA mode
- External antenna SMA connector (3 dBi antenna included)
- Configuration via WEBserver
- Serial port speed 1200 bps to 460800 bps, control bit None, Odd, Even, Mark and Space
- Modbus RTU / Modbus TCP IP
- Operating modes: TCP Server, TCP Client, UDP Client, UDP Server,
- Virtual COM port for Windows PC
- Heartbeat
- Hardware Watchdog

PD9W CONVERTER OF RS-485 TO WI-FI/ ETHERNET INTERFACE



Scope of Supply

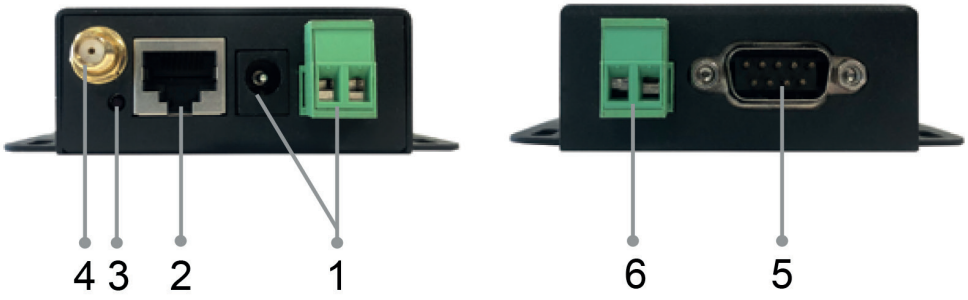
Verify that you have all included equipment. If any item is missing or damaged, contact your supplier.

Inculed equipment:





Commnication Interfaces



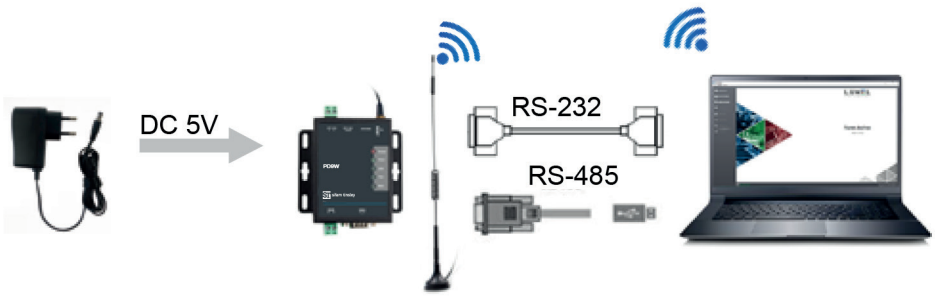
Pin	Defination	Description
1	Power Interface	Power supply: 5-36V DC Wiring needs to check marks '+' "-"
2	LAN/WAN Port	RJ-45 socket
3	Reset Interface	Reset button
4	Antenna Interface	SMA antenna connector
5	RS232 Terminal	DB9 socket
6	RS485 Terminal	Based on the photo, A(+), B(-)

LED	Status Indication
Power	Power LED will light after powering PD9W successfully
WORK	Work LED will blink every two seconds if module works normally
Link	Link LED will light after module establishing WiFi connection
TXD	TXD LED will blink when module sends data from serial side
RXD	RXD LED will blink when module's serial side receives data

Hardware Installation

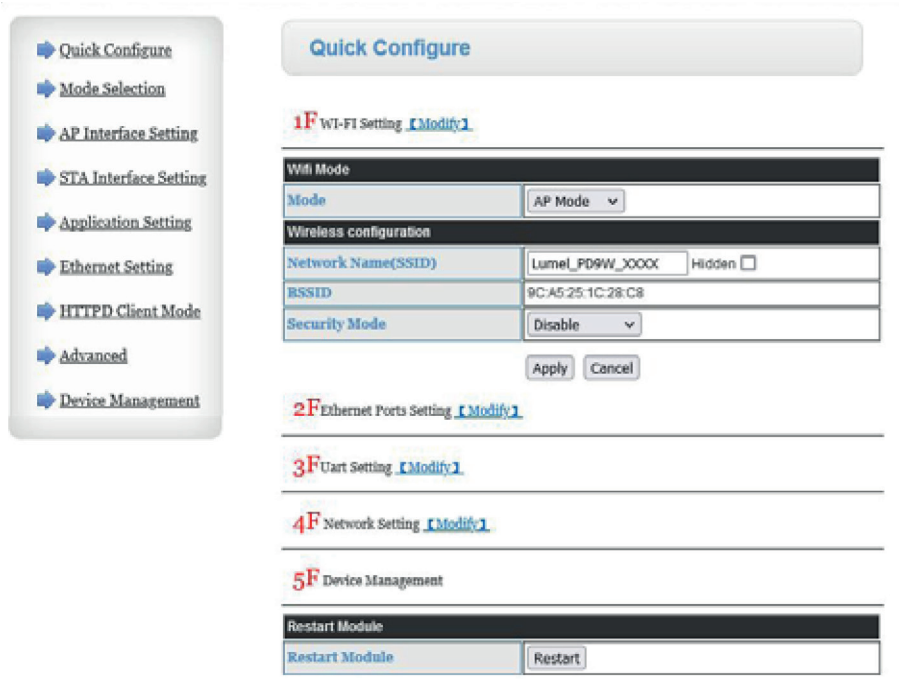
1. PD9W supports two wireless interface:- AP:
   Access point, central mode of a wireless network.
   The otther wireless terminal or device can connect to PD9W through AP.
   - STA: Station, terminal of a wireless network. PD9W can work as STA to join the router's network
   PD9W defaults as AP mode. PC needs to search for the SSID of PD9W and then join its network.
2. RS-232 can connect with a PC by female to female serial cables.
3. After the hardware is properly connected, connect the standard power adapter to power the device.

Connection diagram is as follows:



Configure PD9W via webpage

1. Connect PC to PD9W through SSID
2. Open your web browser and enter 10.10.100.254 The default username and password are both “admin”.
3. After entering the built-in web page, you can configure the serial port parameters and network parameters.
4. After setting the parameters, click Apply. Under Device Management, click restart to restart the device.



Webpage Default Parameters	
SSID	Lumel_PD9W_xxxx (4 bytes MAC address)
Web Server IP address	10.10.100.254
Username	admin
Password	admin

Contact



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