

## OVERVIEW

**Input:**

- Innovative Energies ASCII code from power supply
- 4 optional digital inputs (clean contacts required)

**Outputs:**

- Modbus RTU via RS485 & RS232
- MODBUS TCP and HTTP via ethernet (LAN)
- 2 optional digital outputs (TTL switched)

**+PROTOCONMB-OE** for No-Break™ DC UPS with single battery output, eg. SR100i or SR250i

**+PROTOCONMB-V-OE** for No-Break™ DC UPS with dual battery outputs, eg. SR250V

The converter is supplied with 'Power MBLink' software which used to configure the system.

## SPECIFICATIONS

### ELECTRICAL

- Power supply: 9 - 35VDC, 2.5W
- Digital Inputs: Volt Free Contact inputs with no isolation (Maximum of 4 Inputs)
- Digital Outputs: Relay Outputs max 2A at 30VDC (Maximum of 2 Outputs)

### COMMUNICATIONS

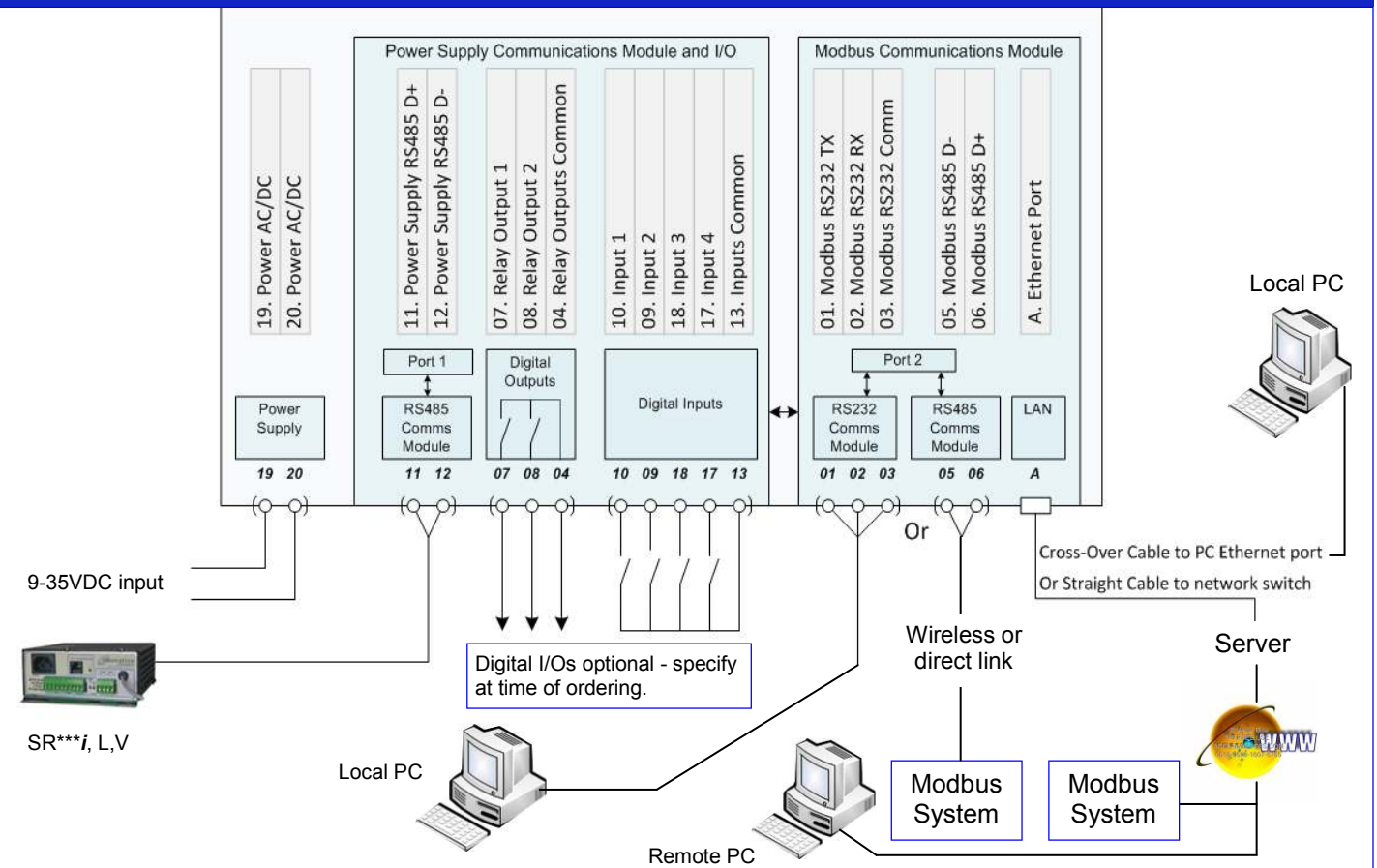
- Ethernet Port Speed: 10Mbps Half Duplex, IPv4
- Power Supply Communication Port: RS485 with no isolation
- Modbus Serial Communication Port: RS485 with no isolation, RS232 with no isolation or flow control.

### PROTOCOLS

- Modbus RTU Functions 1, 3, 5, 6, 15, 16
- Modbus TCP Functions 1, 3, 5, 6, 15, 16
- Internet Protocol: HTTP
- Internet Protocol: ARP/ICMPv4/TCP



## WIRING DIAGRAM



## COMMUNICATION SETTINGS

The 'Comm Settings' Section is used for the following functions:

- Choosing the PC communication port and comms parameters
- Setting device Modbus address to be configured
- Displaying specifications of the device connected to the serial port
- Displaying Ethernet interface IP details and MAC address
- Setting Ethernet interface IP details

The screenshot displays the 'Power EtherMblink v1.0' software interface. The main window is titled 'Power EtherMblink v1.0' and contains several tabs: 'Comm. Settings', 'Power Supply Monitor', 'Configuration Data', 'Modbus Monitor', 'Modbus Monitor Control', and 'Device Information'. The 'Comm. Settings' tab is active, showing 'PC Serial Port Communication Settings' with fields for Port (7), Baud Rate (9600), Parity (None), Data Bits (8), and Stop Bits (1). There are buttons for 'List Ports', 'Open Port', and 'Close Port'. Below this is the 'Modbus Address of Current Connection' section with a 'Modbus Address' field set to 1. The 'New Device Serial Communication Settings' section includes fields for Address (1), Baud Rate (9600), Parity (None), Data Bits (8), and Stop Bits (1), with a 'Send New Comm Settings' button. The 'Device Details' section on the right shows fields for Type (120), Hardware Rev (v1.0), Firmware Rev (v1.0), Released (18-4-10), and Serial Number (10-00120-00000001). It also includes a 'Get Specs' button and a small image of the device. Below this is the 'TCP/IP Settings' section with fields for IP Address (192.168.8.60), Gateway (192.168.8.255), Subnet Mask (255.255.255.0), and MAC Address (0 29 48 0 0 1). There are buttons for 'Send New IP Settings' and 'Get Current IP Settings'. At the bottom of the interface, there is a logo for 'DOZEENER CONTROLS' and 'innovative energies', along with contact information: '© 2010 DoZeener Controls New Zealand', 'Website: www.dozeener.com', and 'Email: support@dozeener.com'. A status bar at the very bottom shows a message: 'Code: 03013, Type: Notice, Description: Updating of Information From Device With Address 1 Ended.'