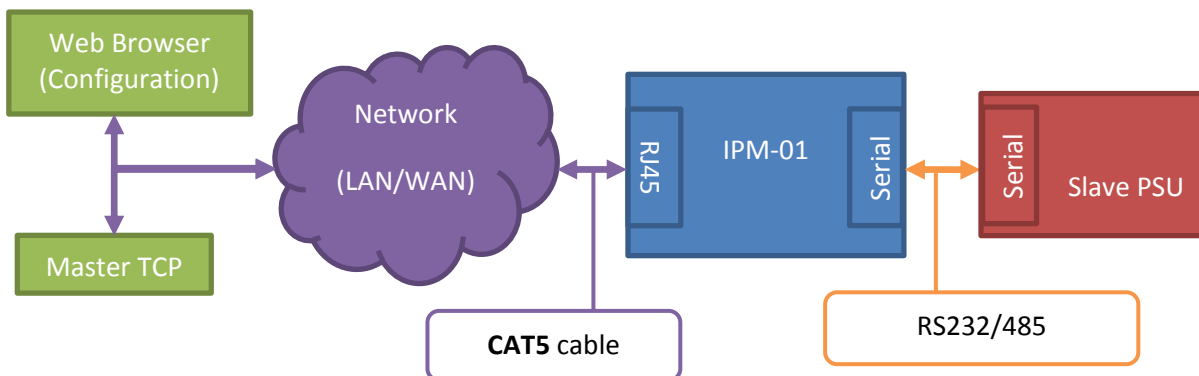# IPM-01 MODBUS TCP/RTU Bridge

The IPM-01 can give any VxI MODBUS RTU compatible device network visibility, allowing a serially connected device to be controlled or monitored over the internet.

The IPM-01 creates a communication bridge between MODBUS TCP and Modbus RTU devices, appearing transparent to both master and slave devices. The device is configurable via its embedded HTTP web server.
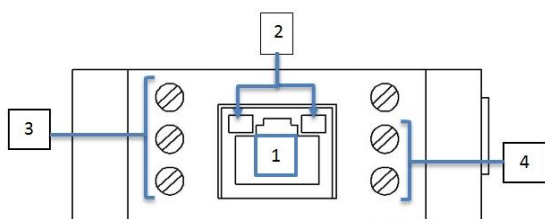

The IPM-01 must first be connected to the devices that you wish to bridge communications between. This consists of one slave device and one master device. The IPM-01 allows either device to be attached to either of its two communication interfaces (Serial or RJ45). The most common arrangement for the IPM-01 is for a MODBUS master to be connected to the IPM-01 via Ethernet and the slave device via serial (Default setting).

DHCP is enabled on the device by default. The VxI Power TCP/IP discovery tool should be used to find your device's assigned IP address.
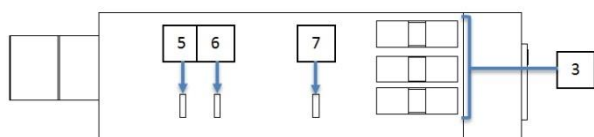
VxI Power TCP/IP Discovery tool: The VxI power **TCP/IP Discovery tool** is a desktop program and is available for download at **www.vxipower.com/ipm01/downloads/**

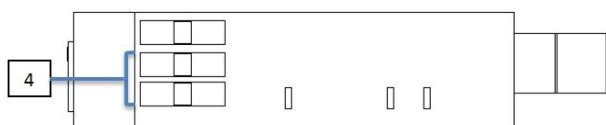More information regarding the IPM-01 and the User Guide are available from: **www.vxipower.com/IPM01**

Input Voltage Range:	9-32V DC
Connections	Power – 2x Screw Terminal (Max Conductor Size 4mm^2) Serial – 3x Screw Terminal (Max Conductor Size - 4mm^2) Ethernet RJ45 socket
User Indicators	1x Serial Transmit indicator LED – Green 1x Serial Receive indicator LED – Red 1x Reset/Restore Button
Operating Temperature: Storage Temperature: Storage Humidity:	-20°C - +50°C * -20°C - +85°C 5% - 95%, non-condensing * -40°C version available on request
Storage Humidity:	5% - 95%, non-condensing
Power Requirement (typical Active):	720mW
Serial Port Details:	**Parity:** Odd, Even or disabled (when disabled, extra stop bit). **Supported Baud Rates:** 9600, 19200, 38400, 57600
Ethernet Details	RJ45, 10Base-T, 802.3 compliant
Maximum Read/write request size:	Supports Reads/Writes of up to 150 registers

Front View

Top View

Bottom View

1. RJ45 Socket
2. Ethernet LEDs
3. Serial Port Pins (Screw Terminal x3:
   RS232 - TX, RX, 0V
   RS485 - A(+), B(-), 0V)
4. Input Power Pins (Screw Terminal x2: +VIN, 0V)
5. Serial Receive (Red) indication LED
6. Serial Transmit (Green) indication LED
7. Reset Button