



# SNMP-R90

UPS Management

User & Installation Manual

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## Introduction



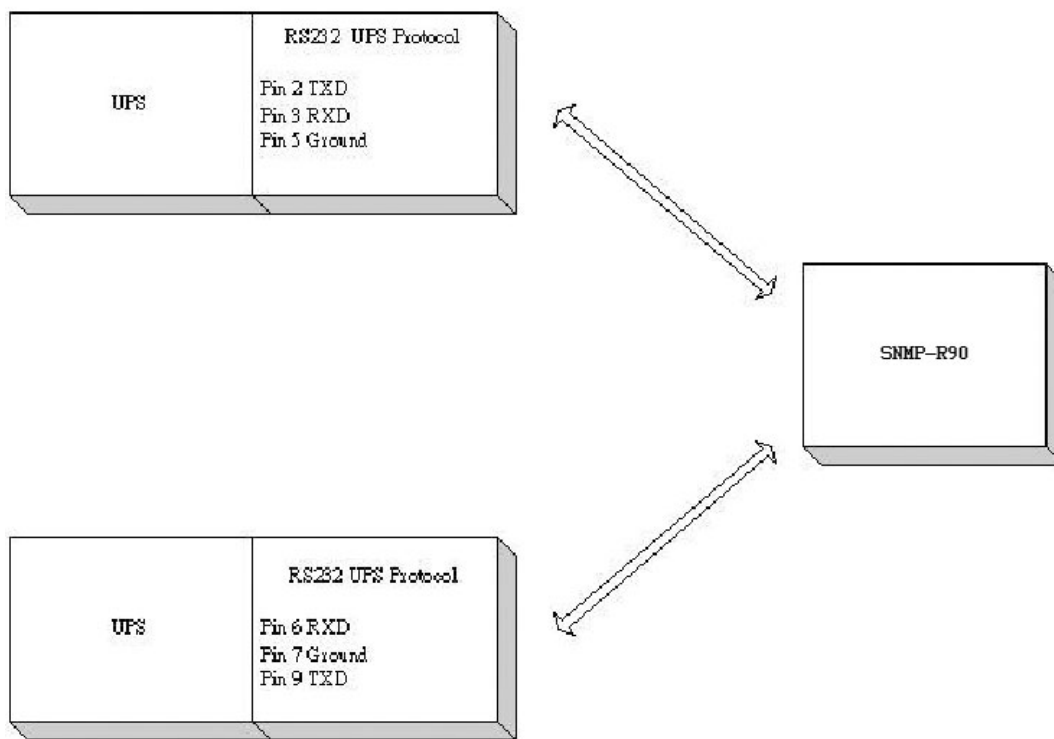
SNMP-R90

## General Description

- A low cost solution for the UPS to implement the SNMP/Web/TCPIP functions into the UPS.
- Compact size: 48mm x 63mm x 21mm (Weight:70g)
- CPU: ARM 50MHz Fully 32-bit RISC architecture
- Flash Memory: 512KB/1MB/2MB/4MB/8MB
- RAM: 2MB/8MB/16MB
- LAN interface: 10M/100M UTP Full/Half duplex
- Serial Port: RS232 port x1
- Power LED x1
- Programmable LED x3
- LAN Status LED x2
- Hardware Watch Dog (WDT)
- Power Supply: +4.8V ~ 7V DC, 250mA maximum
- Operating voltage 3.3 volt
- LAN Protocol: TCP/IP, SNMP, HTTP Server, SMTP, SNTP, PPP, PPPoE, DHCP, Telnet, Bootp, tftp, DDNS, DNS client, Ethernet Upgrade firmware
- Manage and configure via Telnet, Web Browser or NMS/SNMP
- Easy setup and upgrade firmware via tools.

## Specifications

SNMP-R90 generates a standard RS232 signal level to communicate with UPS.



RS232 signal between UPS and SNMP-R90

The DB9 cable of SNMP-R90 can directly connect to RS232 Protocol. Web configuration setup needed for proper function.

## Pin Assignment

### Pin Assignment for SNMP-R90 Cable (DB9 Male)

Pin	Input/Output	Description
Pin 1 DCD	Output	Provide a +5.5V when connecting to a UPS.
Pin 2 RXD	Input	Data Receive pin of the RS232 port. -3V to -15V for logic '1', +3V to +15V for logic '0' This pin connect to TXD pin of UPS RS232.
Pin 3 TXD	Output	Data Transmit pin of the RS232 port. +5.5V and -5.5V Voltage level for RS232. This pin connect to RXD pin of UPS RS232.
Pin 4 DTR	Output	Provide +5.5V when connecting to a UPS.
Pin 5 GND	Signal GND	Signal Ground pin when connecting to UPS.
Pin 6 DSR	Output	Data Transmit pin of the RS232 port.
Pin 7 RTS	GND	Power Ground pin. Also used as signal ground pin when connecting to UPS.
Pin 8 CTS	Input	+5volt DC input. The input has been protected from external DC adapter power.
Pin 9 RI	Input	Data Receive pin of the RS232 port.

## Power Supply

SNMP-R90 need an external +6VDC power adapter or a +5VDC input from Pin 8 (Pin 7 is GND). It's meant no need an external power adapter when UPS provide a +5 VDC (250mA maximum) to Pin 8.