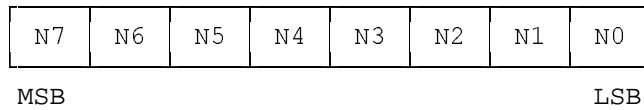## PROTOCOL USED FOR VP61RS, VS-801/601/401 RS-232 COMMUNICATION

The protocol used for communication between the PC and the master
VP61RS 801/601/401 is defined as follows:

N7	N6	N5	N4	N3	N2	N1	N0

MSB   LSB

  where

    N7 is used for communication between the slave and the master
          only and is always 0 for communication with the PC.

    N6N5N4 is the binary value of the machine we are addressing
          minus one, eg, if we wish to address the master
          (machine 1 by definition), then N6N5N4 = 000, if we
          wish to address machine 6, then N6N5N4 = 101.

    N3N2N1N0 is the binary value of the input to be selected, ie.
          N3N2N1N0 = 0111 is equivalent to pressing switch 7
          on the front of the machine.

Several special codes are also valid :

    N3N2N1N0 = 1101 requests that the machine being addressed
          sends to the PC its present status, ie. which input
          is selected on that machine.

    N3N2N1N0 = 1110 is an "OK" handshake, ie confirmation that
          the instruction was received by the addressed
          machine. (If the addressed machine is not present,
          then this confirmation is not sent to the PC).

Information sent from the master to the PC is done using the same format, ie.
        0 , (machine number - 1) , new switch status.
         | | |
        N7   N6N5N4   N3N2N1N0

The rate of data transfer is 1200 baud, with no parity, 8 data bits
and 1 stop bit.

In Machine VP61RS The rate of data transfer is 9600 baud,at case
 Dip switch 5 is ON.

DIP-SWITCH SETTINGS

MACHINE NUMBER	PROGRAM					ADDRESS		
	1	2	3	4	5	6	7	8
1 (MASTER)	ON	OFF	ON	ON	OFF	OFF	OFF	OFF
2 (STAND ALONE)	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
3 (STAND ALONE)	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF
4 (STAND ALONE)	OFF	OFF	OFF	ON	OFF	OFF	ON	ON
5 (STAND ALONE)	OFF	OFF	OFF	ON	OFF	ON	OFF	OFF
6 (STAND ALONE)	OFF	OFF	OFF	ON	OFF	ON	OFF	ON
7 (STAND ALONE)	OFF	OFF	OFF	ON	OFF	ON	ON	OFF
8 (STAND ALONE)	OFF	OFF	OFF	ON	OFF	ON	ON	ON

```
1,2,3  =  RS232
    4  =  REPLY
5      =  BAUD RATE (OFF=1200 BAUD,ON=9600 BAUD)
6,7,8  =  ADDRESS
```