

# Cary Audio Design

## CPA 1 Preamplifier

### RS-232 Protocol and Control Details

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#### Com Port Setup:

Use standard communications settings. The default that most devices use/accept is:

Baud Rate - 9600

Data Bits - 8

Parity - None

Stop Bits - 1

#### Com Port Pin Configuration:

Use standard pin configuration. A configuration that allows direct connection to a PC via 9-pin straight through serial cable is best. Use of only 3 pins (Transmit, Receive, Ground) is best.

9 pin female D connector

Pin 2 = Transmit

Pin 3 = Receive

Pin 5 = Ground

#### RS-232 interface :

Commands are to be sent to the unit via RS-232 using the following format:

<Command> = <Command ID><Argument>

<Command ID> = <Byte>

<Argument> = 0x0d

<Byte> = 0x33,0x30,0x30

#### Status Byte:

Upon receiving the command and done, a single status byte will be transmitted

The format for the status byte is :

<Status Byte> = <Command>

<Command> = 0x31,0x33,0x30,0x30

#### RS232-Interface Usage Details:

The RS-232 interface has a first-in-first-out (FIFO) buffer which will allow each commands to be received in direct succession. Commands are executed in the order in which they are received with approximately a 1/2 second delay between each command. If a longer string of commands is necessary, a minimum of 1/2 second delay should be added before sending additional commands.

Example for sending a long string of commands:

[Command 1]

<Delay 1/2 second>

[Command 2]

<Delay 1/2 second>

[Command 3]

<Delay 1/2 second>

If receiving the errors data, a single status byte will be transmitted. The status byte is:

Rs232 = <ERR>

