

## Serial data from the computer

Serial data is used by the computer from the COM1 port. The standard used on this connection is called RS232. In RS232 logic 0 is represented by +12v and logic 1 is represented by -12v. Connect COM1 to the oscilloscope using the lead provided and capture the signal using storage, 25% pre-trigger, 5v per division.

On the computer use Hyperterminal.

Start -> All Programs -> Accessories -> Communication -> Hyperterminal

Give the connection a name and press OK. Then choose Connect using COM1.

Select

Bits per second:

Data bits:

Parity:

Stop bits:

Flow control:

What is the time for one bit?

Set the time base to produce about 2 bits in each division.

Type a letter and read the binary number (remember a 1 is represented by a **low** voltage and 0 by a **high** voltage).