

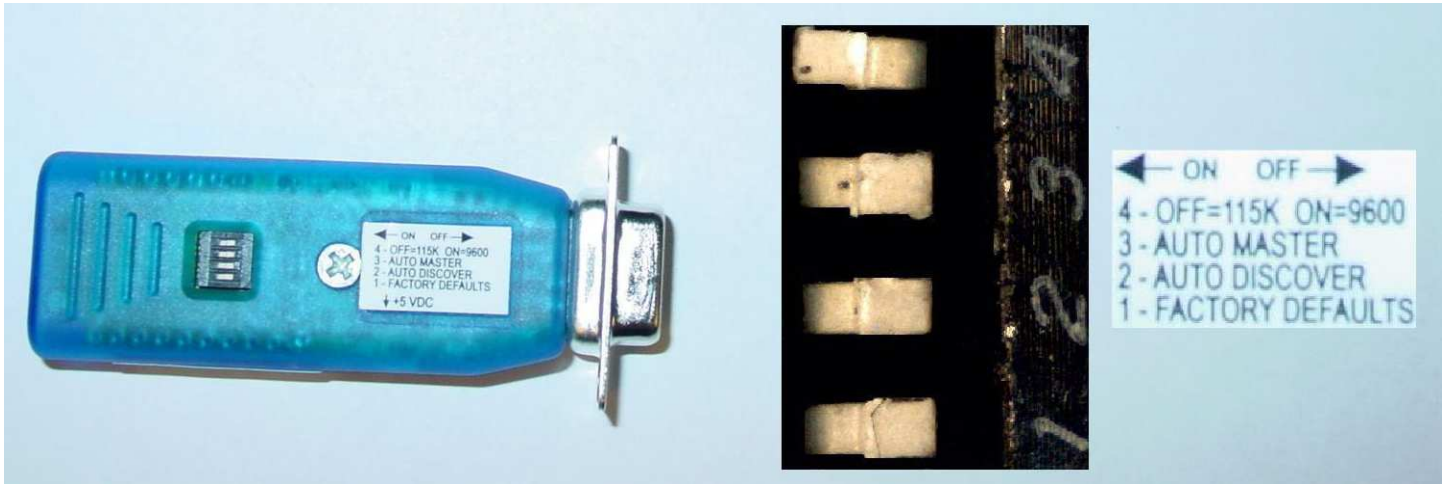
Application Note

**Configuring a GC-BT-FIREFLY
with Siemens DDC Controllers**

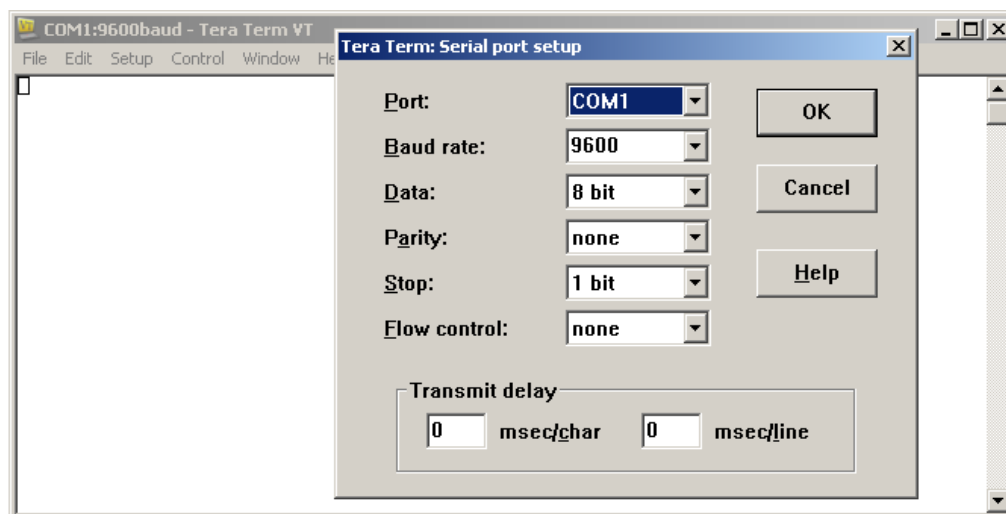
1. Setting the Baud Rate

One of the ways you can configure all of our Bluetooth products is software based and is done by putting the device into configuration mode. This is done by making a connection to the COM port the device is installed on or it can be done remotely.

The easiest way to enter command mode is to set switch 4 on and all other switches off.



The connection to the COM port the device is attached to should have serial settings of 9600, 8, none, 1, and none.



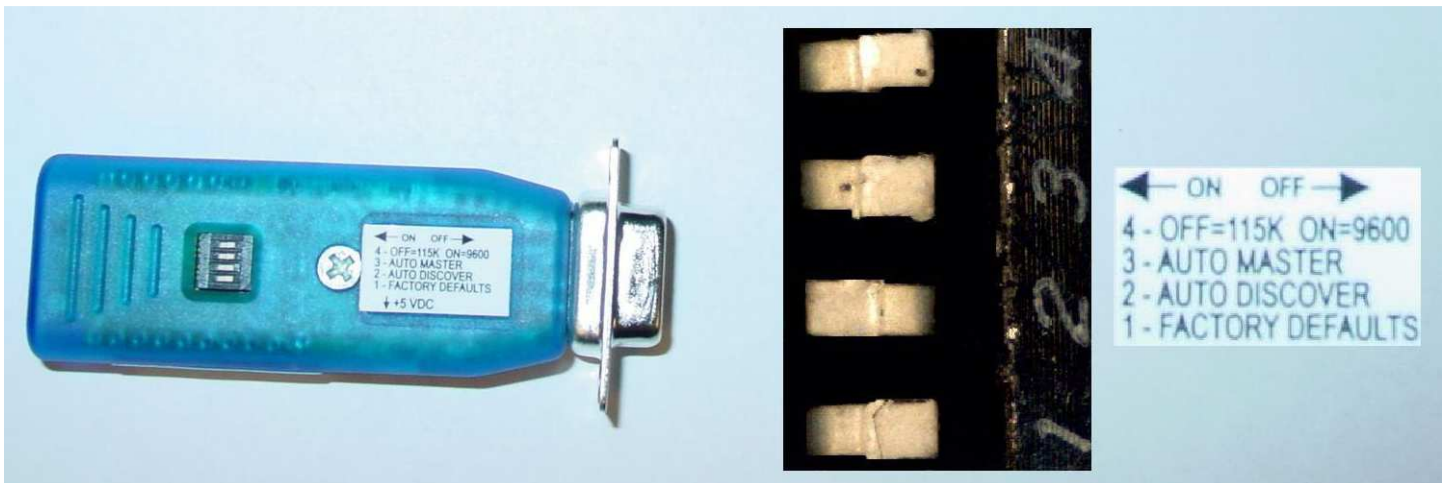
Within 60 seconds of powering the firefly, you need to send at least three dollar signs (\$) over the COM port. Holding down the dollar sign is most effective. The firefly will return "CMD" once you are successfully in command mode.

Baud rate and parity can be changed at this point using the following commands. Commands will not be echoed, so you will not see what you type. The firefly will return "AOK" if the command entered correctly. You can send a "D" at any time to display your current configuration.

Baud Rate
SU,<Rate>

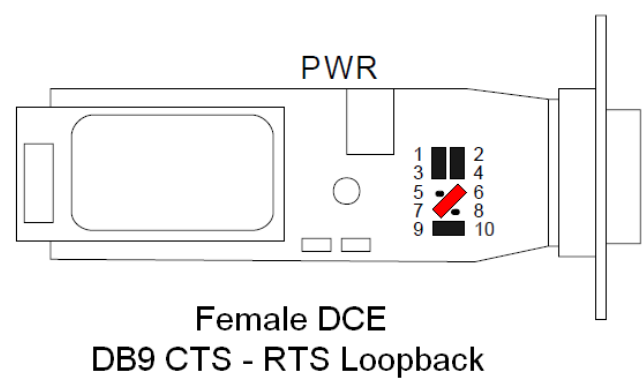
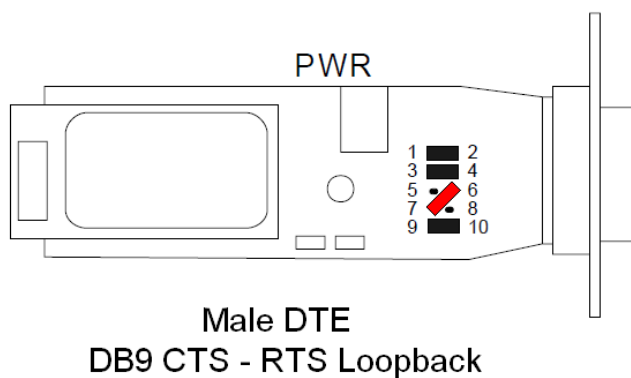
Parity(Even, Odd, or None)
SL,<E,O,N>

Once you are done changing the baud rate you need to set switch 4 to off for custom baud rate and set switch 2 to on for Bluetooth discovery mode.

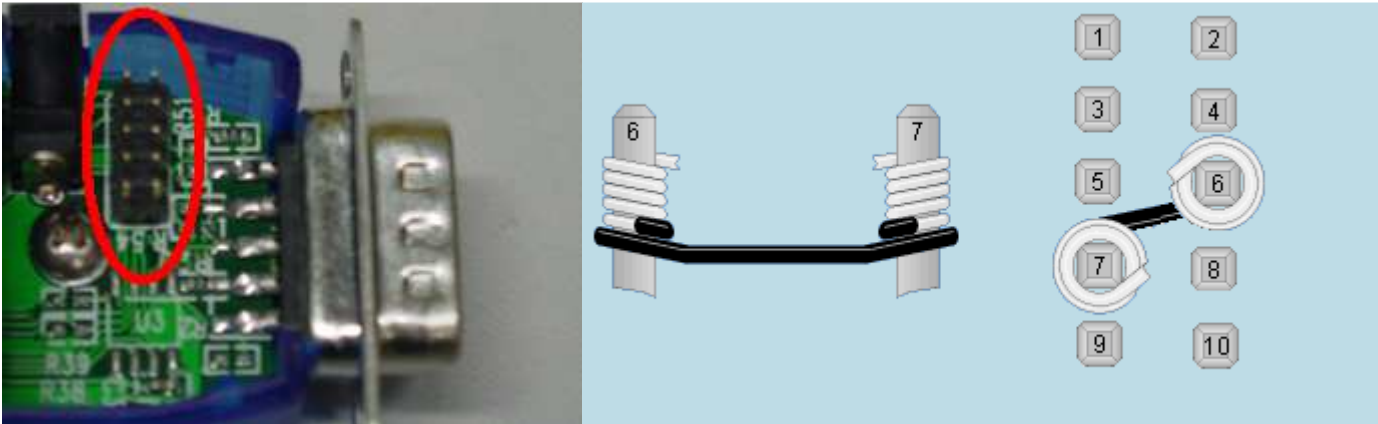


2. Flow Control Loop-Back

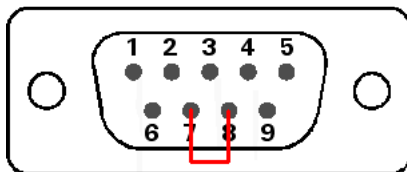
On most Siemens DDC controllers pins 7 and 8 (CTS and RTS) are used. This is not supported by our Bluetooth devices. Therefore, you must trick the panels into thinking flow control is being used. This can be achieved in one of two ways. The first is jumpering internal pins 6 and 7 of the firefly unit.



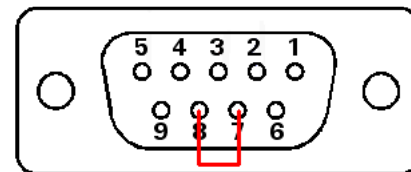
Since the jumpers will not fit in a diagonal orientation, we suggest using wire wrapping rather than soldering so not to void your warranty.



The second, and most common, way of jumpering CTS to RTS is making a custom RS232 cable. You want to tie these wires going into the DCC controller's serial port.



Male DTE
Controller Serial Port



Female DCE
Controller Serial Port