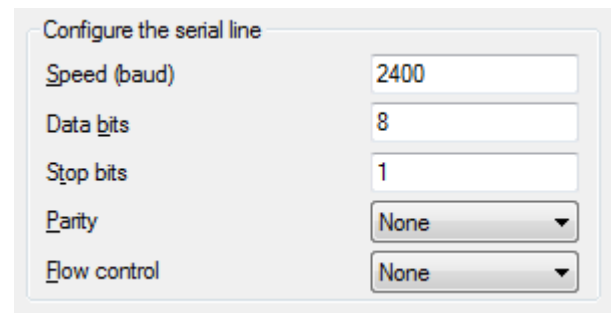To configure the IP address settings on the Smart SIP-IP Meter, you must establish a serial connection between the meter and your PC as follows:

1. Locate the **Console Port** next to the DC jack. Remove the LED plug from the console port and connect the console port to your PC using console/serial cable.

2. Download the PuTTY terminal emulator:

   http://the.earth.li/~sgtatham/putty/latest/x86/putty.exe

3. Run **putty.exe** and configure the PuTTY menu as follows:

   a) Under **Connection type**, select *Serial*.

   b) In the **Serial line** field, enter the COM# you are using to connect your PC to the meter.

   c) In the **Speed** field, type *2400*.

   d) In the **Category** option tree on the left, choose *Connection -> Serial* and configure the serial line as shown on the right.

   e) Click **Open**.

      A blank screen should appear and the meter serial number should begin to output.

4. Hit Enter to query the current IP address settings. The output will indicate whether the meter is using DHCP or a static IP address (**status** = 'dhcp' or 'static'). E.g.,

   ```
   status:  static a=192.168.0.30/24  g=192.168.0.1
   ```

5. To configure DHCP:

Type 'dhcp' and hit enter, then type 'y' and hit enter to confirm changes. The meter will reboot and attempt to acquire an IP address through DHCP.

5. To configure Static IP:

Type the following and hit enter, substituting desired values for *a* (address) and *g* (gateway):

```
static a=192.168.0.2/24 g=192.168.0.1
```

(Note that *a* is written in CIDR notation: <**IP address**> / <**# of bits for routing prefix**>. To determine the number of bits for routing prefix based on a given netmask, see Table 1 below.)

Type 'y' and hit enter to confirm changes. The meter will reboot with a static IP address.

Table 1: Number of bits for routing prefix for a given netmask

Netmask	Prefix Bits	Netmask	Prefix Bits	Netmask	Prefix Bits	Netmask	Prefix Bits
128.0.0.0	1	255.128.0.0	9	255.255.128.0	17	255.255.255.128	25
192.0.0.0	2	255.192.0.0	10	255.255.192.0	18	255.255.255.192	26
224.0.0.0	3	255.224.0.0	11	255.255.224.0	19	255.255.255.224	27
240.0.0.0	4	255.240.0.0	12	255.255.240.0	20	255.255.255.240	28
248.0.0.0	5	255.248.0.0	13	255.255.248.0	21	255.255.255.248	29
252.0.0.0	6	255.252.0.0	14	255.255.252.0	22	255.255.255.252	30
254.0.0.0	7	255.254.0.0	15	255.255.254.0	23	255.255.255.254	31
255.0.0.0	8	255.255.0.0	16	255.255.255.0	24	255.255.255.255	32

6. Finally, disconnect the console/serial cable from the meter and replace the LED plug in the console port.