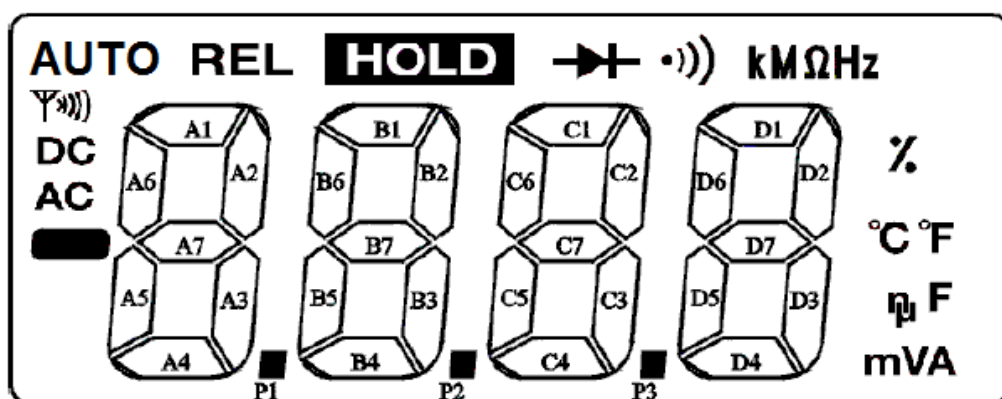# 4000-COUNT DMM COMMUNICATIONS PROTOCOL

After connecting the meter and PC computer via interface cable & after initiating the COM port, the meter will automatically output 14-byte data of which format is shown below. The output rate is equal to the LCD display update rate - normally 3 times per second.

## BAUD RATE 2400, N, 8, 1



| Output Data set | Bit 7 ~ Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
|---|---|---|---|---|---|
| 1st byte | 0001 | AC | DC | AUTO | ҮѠ) |
| 2nd byte | 0010 | ▬ | A5 | A6 | A1 |
| 3rd byte | 0011 | A4 | A3 | A7 | A2 |
| 4th byte | 0100 | P1 | B5 | B6 | B1 |
| 5th byte | 0101 | B4 | B3 | B7 | B2 |
| 6th byte | 0110 | P2 | C5 | C6 | C1 |
| 7th byte | 0111 | C4 | C3 | C7 | C2 |
| 8th byte | 1000 | P3 | D5 | D6 | D1 |
| 9th byte | 1001 | D4 | D3 | D7 | D2 |
| 10th byte | 1010 | u | n | k | ➤ᐣ |
| 11th byte | 1011 | m | % | M | ⋅ⁱ) |
| 12th byte | 1100 | F | Ω | REL | HOLD |
| 13th byte | 1101 | A | V | Hz | ⊡ |
| 14th byte | 1110 | | | °C | °F |

The QM1571 uses a wireless interface which connects to the computer's USB port. A USB driver must be installed and automatically allocates a COM port for each wireless interface connected. The COM port allocated can be changed using the Device Manager. The QM1571 outputs a 5 byte header which can be ignored; the remaining 14 bytes of data are as shown above.