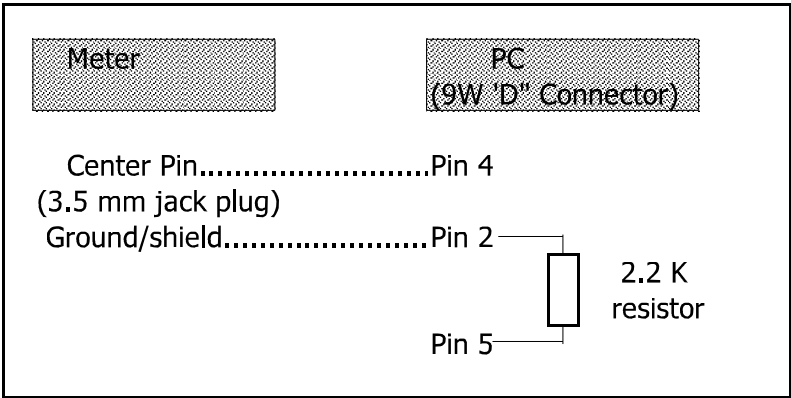


## 11. RS232 PC SERIAL INTERFACE

The instrument has RS232 PC serial interface via a 3.5 mm terminal ( 3-12, Fig. 1 ) if the RS232 function already select to " ON ", refer to chapter 7-7, page 14.

The data output is a 16 digit stream which can be utilized for user's specific application.

A RS232 lead with the following connection will be required to link the instrument with the PC serial port.



The 16 digits data stream will be displayed in the following format :

D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0

**Each digit indicates the following status :**

|         |   |
|---------|---|
| D0      | End Word  |
| D1 & D8 | Display reading, D1 = LSD, D8 = MSD<br>For example :<br>If the display reading is 1234, then D8 to D1 is : 00001234 |

|           |   |            |         |           |          |              |            |
|-----------|---|------------|---------|-----------|----------|--------------|------------|
| D9        | Decimal Point(DP), position from right to the left<br>0 = No DP, 1= 1 DP, 2 = 2 DP, 3 = 3 DP  |            |         |           |          |              |            |
| D10       | Polarity<br>0 = Positive 1 = Negative   |            |         |           |          |              |            |
| D11 & D12 | Annunciator for Display<br><table border="1"> <tr> <td>°C = 01</td> <td>°F = 02</td> <td>% RH = 04</td> </tr> <tr> <td>hPa = 91</td> <td>inch Hg = 80</td> <td>mm Hg = 78</td> </tr> </table> | °C = 01    | °F = 02 | % RH = 04 | hPa = 91 | inch Hg = 80 | mm Hg = 78 |
| °C = 01   | °F = 02   | % RH = 04  |         |           |          |              |            |
| hPa = 91  | inch Hg = 80  | mm Hg = 78 |         |           |          |              |            |
| D13       | When send the up display data = 1<br>When send the middle display data = 2<br>When send the low display data = 3  |            |         |           |          |              |            |
| D14       | 4   |            |         |           |          |              |            |
| D15       | Start Word  |            |         |           |          |              |            |

**RS232 FORMAT : 9600, N, 8, 1**

|              |             |
|--------------|-------------|
| Baud rate    | 9600        |
| Parity       | No parity   |
| Data bit no. | 8 Data bits |
| Stop bit     | 1 Stop bit  |

## 12. PATENT

The meter ( SD card structure ) already get patent or patent pending in following countries :

|         |  |
|---------|--|
| Germany | Nr. 20 2008 016 337.4                      |
| JAPAN   | 3151214                                    |
| TAIWAN  | M 358970<br>M 359043                       |
| CHINA   | ZL 2008 2 0189918.5<br>ZL 2008 2 0189917.0 |
| USA     | Patent pending                             |