TROUBLE SHOOTING

1. Power on but no display
   a) Make sure the time of pressing "ON/OFF" key is more than 200 milliseconds (ms).
   b) Check the battery level and make sure they are at good contact and correct polarity.
   c) Replace the batteries and try again.
   d) Move the batteries for ten seconds, then replace back again.

2. Display disappears
   a) Check whether the low battery indicator is displayed on or before display disappears. If yes, replace with new batteries.
**MEASUREMENT**

<table>
<thead>
<tr>
<th>Measurement Type</th>
<th>Description</th>
<th>Memory Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Point Measurement</td>
<td>Single point measurement</td>
<td>No Memory</td>
</tr>
<tr>
<td>Multiple Point Measurement</td>
<td>File name editable multiple point measurement</td>
<td>99 points</td>
</tr>
<tr>
<td>Automatic Logging</td>
<td>Programmable datalogging function</td>
<td>12000 points</td>
</tr>
</tbody>
</table>

**Comparison of measurement methods**

<table>
<thead>
<tr>
<th>Multi-point Measurement</th>
<th>Datalogging</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECORD</td>
<td>99 points</td>
</tr>
<tr>
<td>FILE NAME</td>
<td>Editable or Default with date and time</td>
</tr>
<tr>
<td>MEASUREMENT SAMPLING</td>
<td>Press &quot;C&quot; to measure and store by pressing specified keys</td>
</tr>
</tbody>
</table>

**Note:**

1. Each record is designed to show current date and time if it was not set.
   For example: If the file name is "05-06 09:21:51" it means the date is 6th May or 5th June, based on your data mode setting and the time is 09:21:51.
2. Each record is designed to show the current date and time.
3. Automatic start-up is disabled after Data End.
   a. Logging stops recording when Data End is reached.
   b. Logging can be stopped and started again with the same setting.

**MULTIPLE MEASUREMENT**

This is to manually record what you measured with real time and file name (a note or identification for the record) that is editable to memorize or recognize.

There are total 69 memory capacities in this measurement.

- Press A or D key to shift the cursor.
- Pressing EDIT to enter measurement mode.
- Pressing PRN to enter printing mode.
- Pressing NEXT/BACK to enter next or previous page.
- Pressing EXIT to return to main menu.

**Description:**

- LCD Cont (1-5): LCD brightness. From darkest 1 to brightest 5.
- Print Cont. (1-9): Printing darkness. From lightest 1 to heaviest 9.
- Unit: The unit could be metric or imperial ("Cm/P")
- Auto Off: The selectable time frame is 1 to 20 min.
- Clock Set: To choose the date mode and set your local time.
- Data Mode DD-MM-YY or DD-MM-YY or MM-DD-YY
- Set ID: If choose "Disable", the ID will not be printed out.
- ID: To edit an ID of this printer, the ID will be printed out in printing mode.
- Select item: To select which multi measurement parameters need to be showed on the LCD. The unit of each parameter could be selected from here as well.

**SINGLE MEASUREMENT**

There are three measurement modes:

1. Single measurement (MEAS).
2. Multiples measurement (MEM).
3. Auto logging (LOG).

Operating the single measurement as a general meter.

**METER SETTING**

Before measuring, please check the meter setting to confirm the basic settings of the meter are what you need.

To enter each command, just press the corresponding F1 to F4 key.

- F4: Meter Setting

**F2: Multiple Measurement**

- Select F1 (ABORT) or F4 (SAVE) to exit the measurement or memory the record.
- Press F3 (Edit) to edit the file name of recorded value.
- Press CLR shortly to delete one data or press for over 2 sec to delete the whole memory.
- Before printing, select the printing range by pressing EDIT key then press START to print.

**F1: Single Measurement**

- Press FA (MEAS) to proceed single measurement.
- After entering measurement mode, press F4 (PRN) to enter printing mode. The printing can be stopped any time by press F1 (STOP/EXIT) key while it is printing.
- The printing contrast can be changed by pressing HIGH or LOW key.

**Manometer Single Measurement**

- After saving #01 memory, press D for next measurement #02 with a cursor will be highlighted.

**Remarks:**

Press CAL to enter calibration mode.

- Under the "REC" function, Curr. means the current value.
- There are total 11 units could be selected under SET function.

**AUTOMATIC LOGGING**

This is to automatically record what you set up before measurement with real time, to set records start/stop date and time, sample rate, memory points. The screen content shows Expert memory points and Remain memory points while inserting.

**F3: Datalogging**

- Press SET to set needed setting first. The Date mode is based on the mode you set under SET (see page 10). The sampling rate is from 1 to 7200 seconds. "STOP" means total memory of this meter, "REMAIN" means how many memory left in meter.
- Press 5 to begin the logging function. While logging, Press VIEW to see the data (more than one) in the screen, press MEAS to see a real-time data, or press STOP to quit logging.
- Press P: PG or N: PG to review previous or next 100 points.
- After stopping, press START to begin again. The sampling rate and previous record are maintained if the previous setting has not been changed.
- "Suspend" is the stop time of each day during setting data.
- If you want to record 24 hours a day, you have to set: 00:00:00 as "Start" and 23:59:59 as "Suspend".

**Manometer Datalogging**

**Remarks:**

Press MEAS to see a real-time measurement values, then press ABORT without saving, press SAVE to store

Press CLR shortly to delete one data or press for over 2 sec to delete the whole memory.

Before logging, make sure you have set the parameters by pressing SET key, or you will see a blank data.