

**DT-36M**



4X3 LED Display

**DT-36L**



3X3 LED Display

**FEATURES**

- ▲ Universal Voltage Input & Current.
- ▲ Universal auxiliary supply.
- ▲ CT ratio on site programmable.
- ▲ Auto scaling.
- ▲ True RMS measurement.

**DA-3**



4X1 LED Display

**DA-33**



4X4 LED Display

**DV-3**



4X1 LED Display

**DV-33**



4X4 LED Display

**TECHNICAL SPECIFICATIONS**

| Parameter             | Range                                                       |
|-----------------------|-------------------------------------------------------------|
| Accuracy              | Class 1                                                     |
| Measurement           | True RMS<br>3 phase 4 wire / 1 phase 2 wire                 |
| Input Voltage         | 50 - 500V                                                   |
| Burden                | 0.2VA Max. per phase                                        |
| Input Current         | 50mA - 6Amps                                                |
| CT ratio              | 5A - 5000Amps                                               |
| Burden                | 0.2VA Max. per phase                                        |
| Auxiliary Supply      | 230 V AC $\pm 10\%$ / 40- 70Hz                              |
| Burden                | 2VA Max                                                     |
| Display resolution    | 4x3 rows for instantaneous value<br>Display update in 1sec. |
| Humidity              | 5% to 95% non condensing                                    |
| Operating Temperature | -10°C to +55°C                                              |
| Storage Temperature   | -25°C to +70°C                                              |
| Dimension Bezel       | 96x96mm - 54mm Depth.                                       |
| Panel Cutout          | 90 $\frac{1}{2}$ x 90 $\frac{1}{2}$ mm.                     |
| Mounting              | Flush mounting with side clamps.                            |

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**MODELS**

| Model  | Parameters  |
|--------|-------------|
| DT-36M | V,A,F & Avg |
| DT-36L | V,A,F & Avg |
| DA-33  | Amps & Avg  |
| DA-3   | Amps & Avg  |
| DV-33  | Ln,LL & Avg |
| DV-3   | Ln,LL & Avg |

**MECHANICAL DIMENSIONS**

- ▲ Prepare panel cutout with proper dimension as shown below
- 
- Bezel 96 x 96 mm Depth 54 mm behind bezel Dimensions in mm
- ▲ Push the meter into the panel cutout, Secure the meter in its place by pushing the clamp on the rear side. The screws of panel of the clamp, must be in the farthest forward slot.
  - ▲ For proper sealing, tighten the screws evenly with required torque.

**WARNING GUIDELINES**

- ▲ To prevent risk of electric shock power supply to the equipment must be kept off while doing the wiring.
- ▲ Wiring shall be done strictly according to the terminal layout confirm that all connections are correct.
- ▲ Use lugged Terminals.
- ▲ To eliminate electromagnetic interference use of wires with adequate rating & twists of the same in equalize shall be made.
- ▲ Cable used for connection to power source, must have cross section of 1.5mm. These wires shall have carrying capacity of 5A.

**DISPLAY PARAMETERS**

| Parameters         | Description                                             | Led                 |
|--------------------|---------------------------------------------------------|---------------------|
| Voltage            | RN,YN,BN (Phase & Neutral)<br>Average (Phase & Neutral) | VLN,L1,L2,L3<br>Avg |
| Voltage            | RY,YB,BR (Phase & Phase)<br>Average (Phase & Phase)     | VLL,L1,L2,L3<br>Avg |
| Current            | R,Y,B<br>Average of R,Y,B                               | Amps<br>Avg         |
| Frequency (system) | R,Y,B with respect to N<br>Average of R,Y,B             | Hz<br>Avg           |
| On Hours           | Meter On Hours calculates                               | ONHP                |
| RPM                | RPM                                                     | PPH                 |

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| Voltage            | RY,YB,BR (Phase & Phase)<br>Average (Phase & Phase)     | VLL,L1,L2,L3<br>Avg |
| Current            | R,Y,B<br>Average of R,Y,B                               | Amps, Kilo<br>Avg   |
| Frequency (system) | R,Y,B with respect to N<br>Average of R,Y,B             | Hz<br>Avg           |
| On Hours           | Meter On Hours calculates                               | ONHP                |
| RPM                | RPM                                                     | PPH                 |

**TEST CERTIFICATE**

| S.No.     | TEST              | TEST CONDITION                                                                                                                                                                                                                                                                                                                                                                                                                                                  | STATUS    |      |     |    |    |      |     |    |    |                   |  |  |     |             |  |  |   |             |  |  |   |             |  |  |   |                 |  |  |          |
|-----------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-----|----|----|------|-----|----|----|-------------------|--|--|-----|-------------|--|--|---|-------------|--|--|---|-------------|--|--|---|-----------------|--|--|----------|
| 1         | Insulation        | a)Voltage Circuit and Earth<br>b)Current Circuit and Earth                                                                                                                                                                                                                                                                                                                                                                                                      | Complied  |      |     |    |    |      |     |    |    |                   |  |  |     |             |  |  |   |             |  |  |   |             |  |  |   |                 |  |  |          |
| 2         | H V Test          | 2kV for 1min<br>a)Voltage Circuit and Earth<br>b)Current Circuit and Earth                                                                                                                                                                                                                                                                                                                                                                                      | Complied  |      |     |    |    |      |     |    |    |                   |  |  |     |             |  |  |   |             |  |  |   |             |  |  |   |                 |  |  |          |
| 3         | Accuracy Test     | <table> <tr> <th>Parameter</th><th>100%</th><th>50%</th><th>5%</th></tr> <tr> <td>PF</td><td>100%</td><td>50%</td><td>5%</td></tr> <tr> <td>kW</td><td>Less than 1elect.</td><td></td><td></td></tr> <tr> <td>kVA</td><td>Within 0.5%</td><td></td><td></td></tr> <tr> <td>V</td><td>Within 0.5%</td><td></td><td></td></tr> <tr> <td>A</td><td>Within 0.5%</td><td></td><td></td></tr> <tr> <td>F</td><td>Less than 0.1Hz</td><td></td><td></td></tr> </table> | Parameter | 100% | 50% | 5% | PF | 100% | 50% | 5% | kW | Less than 1elect. |  |  | kVA | Within 0.5% |  |  | V | Within 0.5% |  |  | A | Within 0.5% |  |  | F | Less than 0.1Hz |  |  | Complied |
| Parameter | 100%              | 50%                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5%        |      |     |    |    |      |     |    |    |                   |  |  |     |             |  |  |   |             |  |  |   |             |  |  |   |                 |  |  |          |
| PF        | 100%              | 50%                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5%        |      |     |    |    |      |     |    |    |                   |  |  |     |             |  |  |   |             |  |  |   |             |  |  |   |                 |  |  |          |
| kW        | Less than 1elect. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |      |     |    |    |      |     |    |    |                   |  |  |     |             |  |  |   |             |  |  |   |             |  |  |   |                 |  |  |          |
| kVA       | Within 0.5%       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |      |     |    |    |      |     |    |    |                   |  |  |     |             |  |  |   |             |  |  |   |             |  |  |   |                 |  |  |          |
| V         | Within 0.5%       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |      |     |    |    |      |     |    |    |                   |  |  |     |             |  |  |   |             |  |  |   |             |  |  |   |                 |  |  |          |
| A         | Within 0.5%       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |      |     |    |    |      |     |    |    |                   |  |  |     |             |  |  |   |             |  |  |   |             |  |  |   |                 |  |  |          |
| F         | Less than 0.1Hz   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |      |     |    |    |      |     |    |    |                   |  |  |     |             |  |  |   |             |  |  |   |             |  |  |   |                 |  |  |          |

Ref Calibration standards

1. MTE SWS 1.3 class 0.1

S.No. 26664

S.No.39822

2. YEW 2533E 31 class 0.1

S No 26BU006513

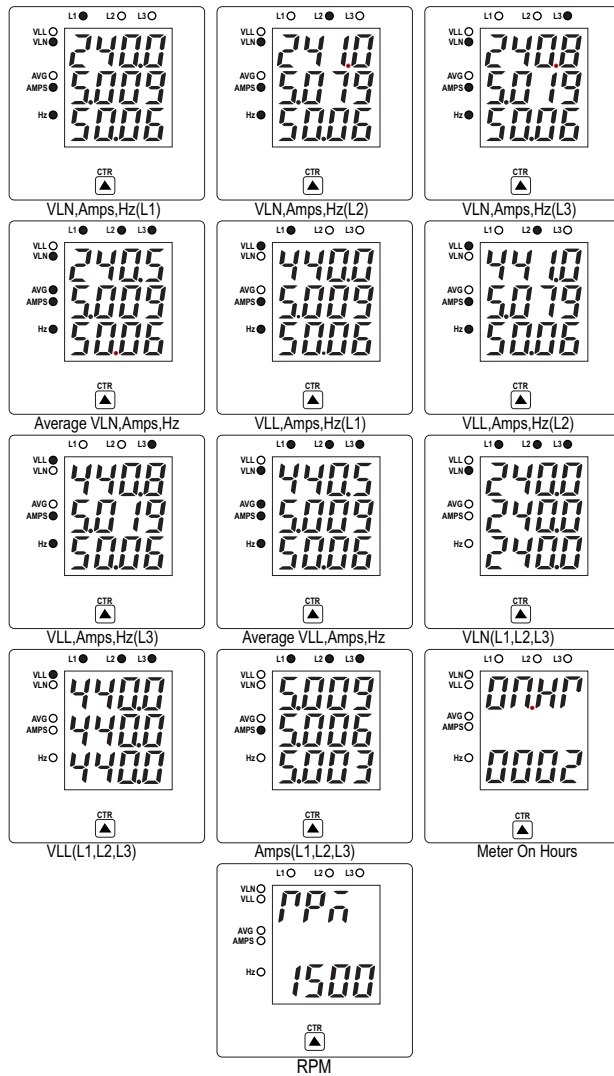
>12 months WARRANTY

Tested by : .....

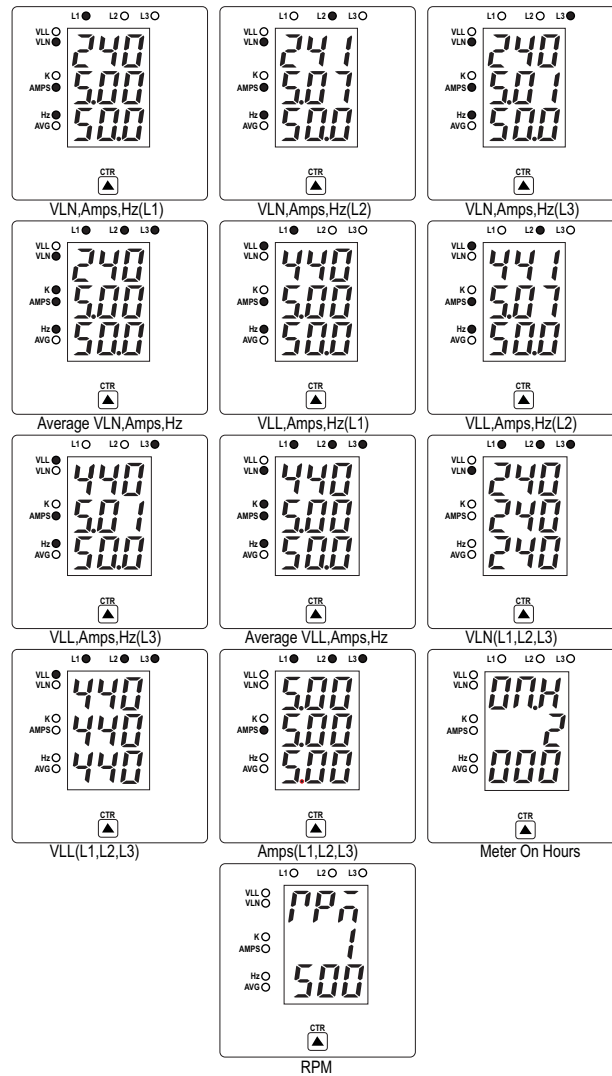
Approved by : .....

Date.....

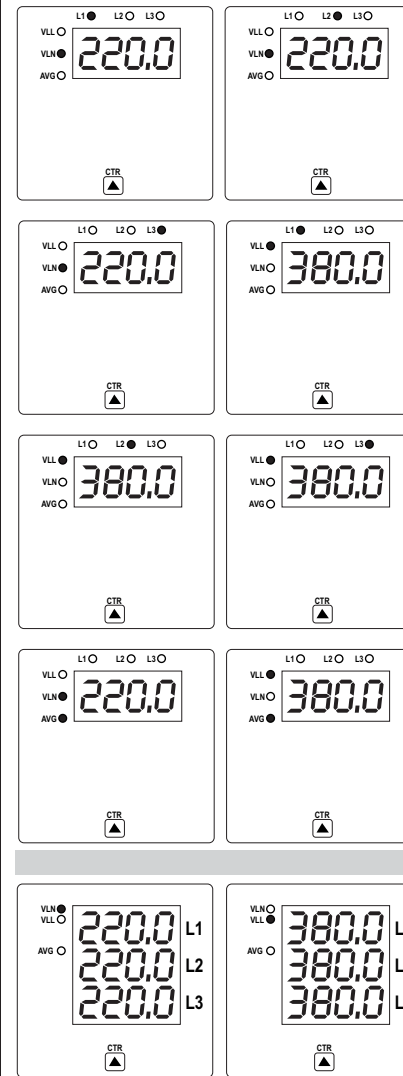
### DT-36M



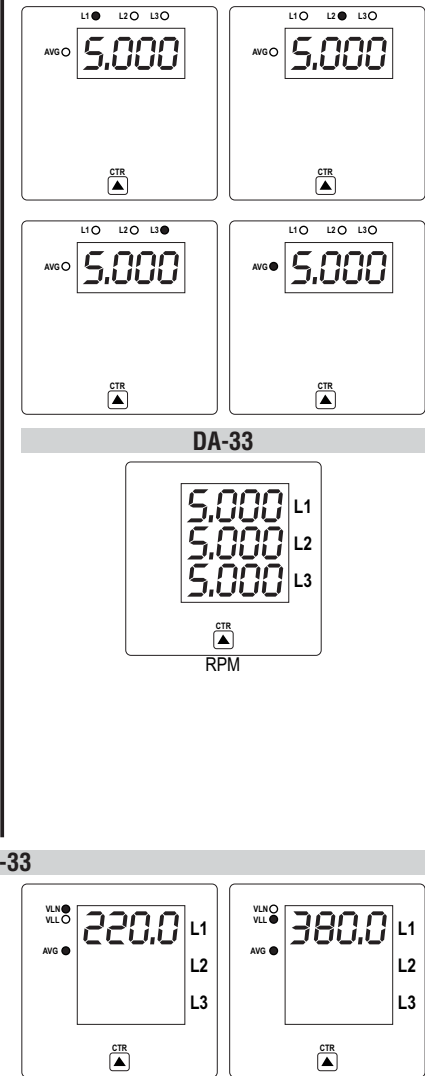
### DT-36L



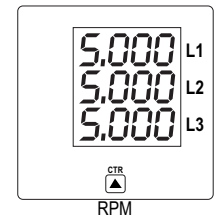
### DV-3



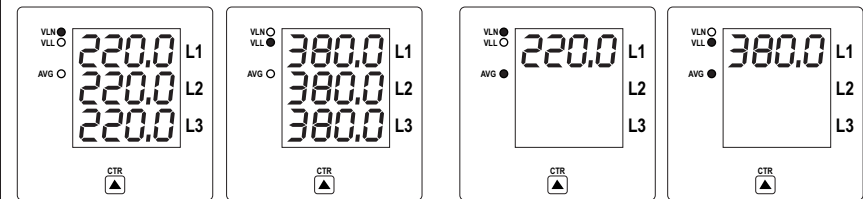
### DA-3



### DA-33



### DV-33



### Setting Main CT Primary

Press and hold the key for 2 seconds, then the display indicates CT primary value. On pressing the key to forward, CT value changes. Select desired CT value, then release the key immediately. CT value blinks, Meter takes 5 seconds to save CT value. Do not switch off the meter supply when CT value blinks, just wait to come into main screen

### CT Primary Range ...../5A

5, 10, 15, 20, 25, 30, 40, 50, 60, 75, 100, 125, 150, 200, 250, 300, 315, 400, 500, 600, 630, 750, 800, 1000, 1200, 1250, 1500, 2000, 2500, 3000, 3200, 4000, 5000

### Scroll ON or OFF

Press and hold key continuously, then switch on auxiliary supply to meter. Hold the key for 10 seconds after release the key immediately. To scroll the pages manually, press key.

### TERMINAL CONNECTIONS

