

All New &  
Fully Intelligent  
Earth Tester



EMPOWERING  
MEASUREMENT



# DECT-3


Digital Earth Clamp Tester  
With Leakage Current Measurement

An ISO 9001:2000 Certified Company  
Visit us at : [www.motwane.com](http://www.motwane.com)

## Features :

- ⊙ RS 232 Interface for monitoring, uploading, analyzing & printing of data
- ⊙ Memory Storage capability of 99 records
- ⊙ Extended resistance range upto 1200Ω
- ⊙ AC Leakage current measurement up to 20A
- ⊙ Alarm setting feature with selection range available for resistance and current
- ⊙ Improved Jaw Opening & Closing
- ⊙ Fast self test & Calibration
- ⊙ Soft touch keys
- ⊙ Rugged casing and easy to use

## General Specifications :

|   |  |
|---|--|
| Display   | 4 digit LCD , 47 mm X 28.5 mm  |
| Resistance Measurement Range                          | 0.01Ω to 1200Ω   |
| Current Measurement Range                             | 0 to 20 A  |
| Memory Storage Facility                               | 99 records   |
| Computer Interfacing                                  | RS 232 for uploading the stored data and analysing at later time   |
| Single Measurement Time                               | 0.5 Second   |
| Resistance Measurement Frequency                      | > 1 KHz  |
| Current measurement Frequency                         | 50 / 60 Hz   |
| Sound & Light annunciator                             | Beep sound, Flashing  symbol, 'AL' key to turn on-off & setting the sound & Light alarm |
| Selection range of resistance for setting alarm value | 1Ω – 199Ω  |
| Selection range of current for setting alarm value    | 1mA - 499 mA   |
| Protection Level                                      | Double Insulation  |
| External Magnetic Field                               | < 40 A/m   |
| External Electric Field                               | < 1V/m   |
| Power Source  | 6VDC (4x1.5 V AA alkaline battery)   |
| Auto Power Off  | approx 5 minutes   |
| Environmental   | Working Temperature:0°C to 50°C<br>Relative Humidity : 10% to 90%  |
| Jaw Size  | 65mm X 32mm  |
| Dimension (L x B x H)                                 | 285mm x 85mm x 56mm  |
| Net Weight (Including Batteries)                      | 1160 gms   |

## Technical Specifications :

| Mode       | Range         | Resolution | Accuracy       |
|------------|---------------|------------|----------------|
| Resistance | 0.010-0.099 Ω | 0.001 Ω    | ±(1% + 0.01Ω)  |
|            | 0.10-0.99 Ω   | 0.01 Ω     | ±(1% + 0.01Ω)  |
|            | 1.0-49.9 Ω    | 0.1 Ω      | ±(1% + 0.1Ω)   |
|            | 50.0-99.5 Ω   | 0.5 Ω      | ±(2% + 0.5Ω)   |
|            | 100-199 Ω     | 1 Ω        | ±(3% + 1Ω)     |
|            | 200-395 Ω     | 5 Ω        | ±(6% + 5Ω)     |
|            | 400-590 Ω     | 10 Ω       | ±(10% + 10Ω)   |
|            | 600-880 Ω     | 20 Ω       | ±(20% + 20Ω)   |
| Current    | 0-9 mA        | 0.1 mA     | ±(2.5% + 1mA)  |
|            | 10-99 mA      | 1 mA       | ±(2.5% + 5mA)  |
|            | 100-299 mA    | 1 mA       | ±(2.5% + 10mA) |
|            | 0.30-2.99 A   | 10 mA      | ±(2.5% + 0.1A) |
|            | 3.0-9.9 A     | 0.1 A      | ±(2.5% + 0.3A) |
|            | 10.0-20.0 A   | 0.1 A      | ±(2.5% + 0.5A) |

NOTES

1.The Instrument is accompanied with Test & calibration sheet. 2. Test facilities can be provided at the factory with the available test set-ups only. 3.The Company's policy is continuous improvement of its product, we therefore reserve the Right of any deviation from illustration or specifications without notices. 4. Accuracy Specified for temperature range of 25°C ± 5°C & 55%RH ± 10%

## Applications :

- Measures Earth Resistance of the electrical ground rod and grid.
- Measures AC leakage current of transformer neutral.
- Used to test the quality of the grounding without disconnecting the ground rod under test.
- Conduct field surveys fast and effectively and retrieves and analyzes the readings for later reference.
- Used to test the telecommunication Tower's grounding.
- Used in finding the earth fault such as discontinuation or loose contact of earthing strips or cables.
- To find the resistance of earth pit.

## Standard Accessories:

- Carrying Case
- Standard Loop Resistance of 5.1Ω
- Instruction Manual
- RS 232 Cable
- PC Software CD
- Calibration Certificate



DBS/PC/EI-103/Rev-02



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