



# DIGITAL CLAMP METER



(Measurement of AC Current without interrupting the circuits)

**MODEL : DCM 2350 +**

**MODEL : DCM 2150 Series**



With  
Frequency  
Temperature  
Voltage  
Resistance  
Diode  
Audible Continuity

**MODEL : DCM 2150**

ACA : 200/1000A  
ACV : 750 V  
DCV : 1000V  
Resistance : 200/20k $\Omega$   
Audible Continuity Test  
Facility

**MODEL : DCM 2150F**

ACA : 200/1000A  
ACV : 200/750 V  
DCV : 2/20//200/1000V  
Frequency : 2kHz  
Resistance : 200/2k/20k/200k/2M $\Omega$   
Audible Continuity &  
Diode test Facility

**MODEL : DCM 2150T**

ACA : 20/200/400A  
ACV : 200/750 V  
DCV : 0.2/2/20//200/1000V  
Resistance : 200 $\Omega$ /20k $\Omega$ /20M $\Omega$   
Temperature : 0° to 750°C



**2000 A AC**

**1000 A AC**

★ **DATA HOLD & Back Light Facility.**

### GENERAL SPECIFICATIONS

|                        |                                                  |
|------------------------|--------------------------------------------------|
| Display                | : LCD, 3½ digits, 1999 counts, updates (2-3)/sec |
| Polarity indication    | : "-" displayed for negative polarity            |
| Overrange Indication   | : Only figure "1" on the display (at MSB)        |
| Jaw opening capability | : 55mm (Max conductor size)                      |
| Power                  | : 9V battery, NEDA 1604 or IEC 6F22              |
| Low battery indication | : "BAT" appears on the display                   |
| Operating Environment  | : 0°C to 40°C                                    |
| Storage temperature    | : -10°C to 50°C                                  |
| Altitude               | : 2000m                                          |
| Dimensions             | : 282mm X 104mm X 47mm                           |
| Weight                 | : Approx. 500g                                   |

★ **DATA HOLD Facility.**

### GENERAL SPECIFICATIONS

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Display                | : 3 ½ digit LCD, with automatic polarity indication       |
| Measuring Method       | : Dual-slope integration A-D converter                    |
| Overrange Indication   | : "1" Figure only in the display                          |
| Polarity indication    | : "-" displayed for negative polarity                     |
| Operating Temperature  | : 0°C to 40°C (32°F to 104°F)                             |
| Storage Environment    | : -10°C to 50°C (14°F to 122°F)                           |
| Power                  | : 9V alkaline or carbon-zinc battery (6F22 or equivalent) |
| Low Battery Indication | : "BAT" to left of display                                |
| Dimensions             | : 96 (W) x 235 (D) x 46 (H) mm                            |
| Weight                 | : 330g (including battery) approx.                        |

## INSTRUMENTS FOR ACCURACY & RELIABILITY



# DIGITAL CLAMPMETER

## DCM 2150 /DCM 2150T/DCM 2150F

## DCM 2350 +



MODEL : DCM 2150 /DCM 2150T/DCM 2150F

Note : In Table 'O' means DCM 2150, T means DCM 2150T, F means DCM 2150F

MODEL 2350 +

| DC Voltage |            |                         | Models |   |   |
|------------|------------|-------------------------|--------|---|---|
| Range      | Resolution | Accuracy                | O      | T | F |
| 200mV      | 0.1mV      | ± 0.5% of rdg ± 1digits |        | ✓ |   |
| 2V         | 1mV        | ± 0.5% of rdg ± 3digits |        | ✓ | ✓ |
| 20V        | 10mV       |                         |        | ✓ | ✓ |
| 200V       | 0.1V       |                         |        | ✓ | ✓ |
| 1000V      | 1V         | ± 0.8% of rdg ± 3digits | ✓      | ✓ | ✓ |

Input Impedance : ≥ 9MΩ  
Overload protection : 250Vrms AC for 200mV range, 1000V DC or 750V AC for other range.

| DC Voltage |            |                         |
|------------|------------|-------------------------|
| Range      | Resolution | Accuracy                |
| 2V         | 1mV        | ± 0.5% of rdg ± 1digits |
| 20V        | 10mV       |                         |
| 200V       | 0.1V       |                         |
| 1000V      | 1V         | ± 1.0% of rdg ± 3digits |

Input Impedance : 10MΩ

| AC Voltage |            |                          | Models |   |   |
|------------|------------|--------------------------|--------|---|---|
| Range      | Resolution | Accuracy                 | O      | T | F |
| 200V       | 0.1V       | ± 1.0% of rdg ± 3 digits |        | ✓ | ✓ |
| 750V       | 1V         | ± 1.2% of rdg ± 5 digits | ✓      | ✓ | ✓ |

Input Impedance : ≥9MΩ on all ranges  
Overload protection : 1000V DC or 750V AC on all ranges  
Frequency Range : (50Hz to 400Hz)/s 600V, (50Hz to 200Hz) / 750V.  
Response : Average calibrated in rms of sine wave

| AC Voltage |            |                         |
|------------|------------|-------------------------|
| Range      | Resolution | Accuracy                |
| 200V       | 0.1V       | ± 1.0% of rdg ± 3digits |
| 750V       | 1V         |                         |

Input Impedance : 10MΩ  
Frequency range : 40Hz to 400Hz.  
Response : Average responding, calibrated in rms. of sine wave.

| AC Current |            |                           | Models |   |   |
|------------|------------|---------------------------|--------|---|---|
| Range      | Resolution | Accuracy                  | O      | T | F |
| 20A        | 0.01A      | ± 4.0% of rdg ± 5 digits  |        | ✓ |   |
| 200A       | 0.1A       | ± 2.5% of rdg ± 5 digits  |        | ✓ | ✓ |
| 1000A      | 1A         | ± 3.0% of rdg ± 10 digits | ✓      | ✓ | ✓ |

Frequency Range : 50Hz to 60Hz  
Response : Average, Calibrated in rms of sine wave  
Overload protection : 1200A within 60 seconds. Jaw Opening : Φ50mm

| AC Current |            |                                |
|------------|------------|--------------------------------|
| Range      | Resolution | Accuracy                       |
| 20A        | 0.01A      | ± 3.0% of rdg ± 5 digits       |
| 200A       | 0.1A       | < 600A ±2.0% of rdg ± 5 digits |
| 2000A      | 1A         | > 600A ±3.0% of rdg ± 5 digits |

Overload Protection : 2200A for 60 seconds maximum.  
Frequency range : 50Hz to 60Hz.

| Resistance |            |                          | Models |   |   |
|------------|------------|--------------------------|--------|---|---|
| Range      | Resolution | Accuracy                 | O      | T | F |
| 200Ω       | 0.1Ω       | ± 1.0% of rdg ± 5 digits | ✓      | ✓ | ✓ |
| 2kΩ        | 1Ω         | ± 1.0% of rdg ± 8 digits |        |   | ✓ |
| 20kΩ       | 10Ω        |                          | ✓      | ✓ | ✓ |
| 200kΩ      | 100kΩ      |                          |        |   | ✓ |
| 2MΩ        | 1kΩ        |                          |        | ✓ | ✓ |

Overload protection : 250V Dc or 250Vrms AC on all ranges.  
Open circuit voltage : 700mV

| Resistance |            |                           |
|------------|------------|---------------------------|
| Range      | Resolution | Accuracy                  |
| 200Ω       | 0.1Ω       | ± 1.5% of rdg ± 10 digits |
| 20kΩ       | 10Ω        |                           |
| 2MΩ        | 1kΩ        |                           |

Overload protection : 250V Dc or 250Vrms AC on all ranges.  
Open circuit voltage : 700mV

| Temperature  |            |                |                         |
|--------------|------------|----------------|-------------------------|
| Range        | Resolution | Test Range     | Accuracy                |
| 0°C to 750°C | 1°C        | 0°C to 400°C   | ±1.0% of rdg ± 3 digits |
|              |            | 400°C to 750°C | ±2.0% of rdg ± 1 digits |

| Insulation Test (With option 500V insulation tester unit) |            |                          |         |
|-----------------------------------------------------------|------------|--------------------------|---------|
| Range                                                     | Resolution | Accuracy                 | Note    |
| 20MΩ                                                      | 10kΩ       | ± 2.0% of rdg ± 2 digits |         |
| 2000MΩ                                                    | 1MΩ        | ± 4.0% of rdg ± 2 digits | ≤ 500MΩ |
|                                                           |            | ± 5.0% of rdg ± 2 digits | > 500MΩ |

| Frequency |            |                          |
|-----------|------------|--------------------------|
| Range     | Resolution | Accuracy                 |
| 2kHz      | 1Hz        | ± 2.0% of rdg ± 5 digits |
| 20kHz     | 10Hz       | ± 1.5% of rdg ± 5 digits |

| Temperature (For DCM 2150T ONLY) |            |                                 |                                     |
|----------------------------------|------------|---------------------------------|-------------------------------------|
| Range                            | Resolution | Accuracy                        |                                     |
|                                  |            | 0°C to 400°C<br>(32°F to 752°F) | 401°C to 750°C<br>(754°F to 1382°F) |
| 0°C to 750°C                     | 1°C        | ±1.0% of rdg ±3digits           | ±2.0% of rdg ±3digits               |
| 32°F to 1382°F                   | 1°F        |                                 |                                     |

| Diode & Continuity |                                                                         |
|--------------------|-------------------------------------------------------------------------|
| Range              | Description                                                             |
| → ←                | Display read approximate forward voltage of diode.                      |
| • •)               | If continuity exists (about less than 40Ω), built-in buzzer will sound. |

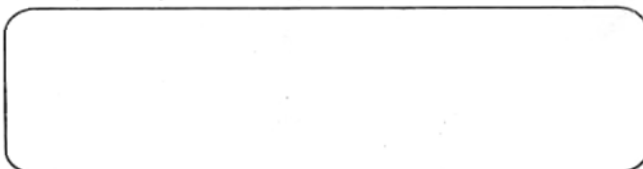
| Frequency (For DCM2150F Only) |            |                          |
|-------------------------------|------------|--------------------------|
| Range                         | Resolution | Accuracy                 |
| 2kHz                          | 1Hz        | ± 2.0% of rdg ± 5 digits |

### ACCESSORIES

- Operator's Instruction manual
- Set of test leads
- "K" type thermocouple
- 9 volt battery. NEDA 1604 6F22 006P type
- Plastic Carrying Case

\*CIE in a continuing efforts to offer excellent products at a fair value, reserves the right to change models, specifications and designs without notice

Note : Inspection if any at our works will be carried out as per facility available only with us



### ACCESSORIES

- Test Leads
- Battery : 9V 6F22 or equivalent
- Operation Manual
- Temperature probe (for DCM 2150T only)