



reatures

- Auto ranging 3¾ digits (3999) LCD-Display.
- True RMS reading for ACV & ACA
- 2 in 1 Clamp meter + Digital multimeter.
- Overload protection for all ranges.
- Data hold, Relative key facility.
- Water resistance front panel, fireproof heavy-duty ABS casing.
- Current sensor- Hall effect sensor
- Over range indication: 'OL' is displayed.
- Max Conductor size 60mm approx.
- Power one 9V battery type (6F22)
- Size (H X W X L)-255 X 73 X 38 mm (approx)
- Net weight -515 gm with battery (approx)



DCM 39A/993UA

Digital Clamp ivieter

MOTWANE's Digital Clamp Meter DCM 39A & DCM 9930A are highly precision, Industrial grade, Trms, auto ranging clamp meters with 3¾ Digit display. Both the clamp meters can be used as Multimeter with test leads for AC/DC Current measurements upto 400 mA, AC/DC Voltage, resistance, Frequency, Capacitance, Duty Cycle and Diode, Continuity etc. These clamp meters are provided with safety features like Water resistance front panel, fireproof heavy-duty ABS casing. It uses a Hall Effect sensor for measuring the current.

The model DCM 39A measures AC/DC currents up to 1000A.

The model DCM 9930A measures AC/DC currents up to 2000A.

Applications

- Generation, transmission & Distribution
 Substation
- Process industries.
- OEM's
- Railway's
- Telecom Industries
- Service Industries

Technical Specifications

AC/DC CURRENT (TRUE RMS FOR AC) - DCM 39A

Range	Resolution	Input	Accuracy
400μΑ	0.1μΑ	Direct	± 1.2% ± 5dgt
4000μΑ	1μA	Input	± 1.2% ± 5dgt
40mA	0.01mA	(by using	± 1.2% ± 5dgt
400mA	0.1mA	leads)	± 1.2% ± 5dgt
400A	0.1A	Indirect	± 2% ± 8dgt
1000A	1A	Input (by using clamp)	± 2% ± 8dgt

Overload protection : AC/DC 500mA(Fuse)

AC/DC 1000A/1000V

Frequency Response : 45Hz - 1KHz

AC/DC CURRENT (TRUE RMS FOR AC) - DCM9930A

Range	Resolution	Input	Accuracy
400μΑ	0.1μΑ	Direct	± 1.2% ± 5dgt
4000μΑ	1μΑ	Input	± 1.2% ± 5dgt
40mA	0.01mA	(by using	± 1.2% ± 5dgt
400mA	0.1mA	leads)	± 1.2% ± 5dgt
400A	0.1A	Indirect	± 2% ± 8dgt
2000A	1A	Input (by using clamp)	± 2% ± 8dgt

Overload protection : AC/DC 500mA(Fuse)

AC/DC 2000A/1000V

Frequency Response : 45Hz - 1KHz

Common Technical Specifications for DCM39A & DCM9930A

DC VOLTAGE

Range	Resolution	Accuracy	Overload protection
400mV	0.1mV	± 0.5% ± 2dgt	
4V	0.001V	± 1% ± 2dgt	1000V DC
40V	0.01V	± 1% ± 2dgt	or 1000V AC rms
400V	0.1V	± 1% ± 2dgt	(Sine wave)
1000V	1V	± 1% ± 2dgt	20 18

Input Impedance : ≥10MΩ (Approx)

AC VOLTAGE

Range	Resolution	Accuracy	Overload protection
4V	0.001V	± 1.2% ± 5dgt	
40V	0.01V	± 1.2% ± 5dgt	1000V DC or 1000V
400V	0.1V	± 1.2% ± 5dgt	AC rms (Sine wave)
1000V	1V	± 1.2% ± 5dgt	

Input Impedance: 10MΩ (Approx) **Frequency Response**: 45Hz - 1KHz

FREQUENCY

Range	Resolution	Accuracy	Overload protection
50Hz	0.01Hz	± 1% ± 5dgt	
500Hz	0.1Hz	± 1% ± 5dgt	
5KHz	1Hz	± 1% ± 5dgt	1000V AC/DC
50KHz	0.01KHz	± 1% ± 5dgt	
100KHz	0.1KHz	± 1% ± 5dgt	1

Amplitude: < 5V

RESISTANCE

Range	Resolution	Accuracy	Overload protection
400Ω	0.1Ω	± 1% ± 5dgt	
4ΚΩ	1Ω	± 1% ± 5dgt	
40ΚΩ	10Ω	± 1% ± 5dgt	400V DC/AC RMS
400ΚΩ	100Ω	± 1% ± 5dgt	(Sine wave)
4ΜΩ	1ΚΩ	± 2% ± 2dgt	
40ΜΩ	10ΚΩ	± 3.5% ± 5dgt	

DUTY CYCLE

Range	Resolution	Accuracy	Over voltage Protection
1% -99%	0.1%	± 1% ± 5dgt	1000 V AC/DC

DIODE: Measures forward voltage drop

CONTINUITY CHECK: Buzzer sound if Resistance $< 10\Omega$

CAPACITANCE

Range	Resolution	Accuracy	Overload protection
50nF	10pF	± 3% ± 5dgt	
500nF	100pF	± 3% ± 5dgt	400V DC/AC RMS
5µF	0.001µF	± 3% ± 5dgt	(Sine wave)
50μF	0.01µF	± 3% ± 5dgt	7 25 26



Accessories 1) one set of test

one set of test leads.
 Carrying Case.
 Instruction Manual
 one 9V Battery

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 products. we therefore reserve the Right of any deviation from illustration or specifications without notice. 4. Stated accuracies are valid from 1/10th of range to FS. 5. Accuracy Specified for temperature range of 25° C \pm 5° C& 55° RH \pm 10%.

JBS/PC/DCIM-02/REV-03







Digital Clamp Meter DCM 49 A

FEATURES

- 33/4 digit LCD, 4000 counts, Multi function 1000A AC/DC.
- Large Jaw Size: 60mm.
- Function Rich, AC/DC Current, AC/DC Voltage, Resistance, Diode, Continuity, Capacitance, Frequency and Duty Cycle.
- Large Backlit display with rich annunciations.
- Auto Power Off for battery life saving.
- Relative Reading and Data Hold Functions.
- Ergonomic Design for holding.
- Suitable for use in Appliance Testing, Portable Tools, Building Wiring,
- Testing of Electronic / Electrical Products.

we have a solution

Ba/PC/DCM-Ua/Key-02

GENERAL SPECIFICATION:

Dimensions : 260mm x 91mm X 44.5mm (approx).

Weight : Approx 500gms.

Supplied Accessories : Pair of Leads, Instruction Manual, Battery Installed.

 Safety : In accordance with IEC61010-1 and IEC61010-2-32, double insulation DC 1000V and AC 700V, CAT-II and pollution degree II.

TECHNICAL SPECIFICATIONS

AC/DC CURRENT: (MANUAL RANGING) (50-60Hz)

Range	Resolution	Accuracy	Overload Protection	
400A	0.1A	+(2.5% +10d)	120% of Full Scale	
1000A	1A	1(2.5% · 10d)	for <60 sec.	

DC VOLTS: (AUTO / MANUAL RANGING)

Range	Accuracy	Overload Protection	Input Impedance
4V			
40V	± (1.5% +10d)	DC 1000Vor AC 750V rms.	10MΩ(Approx)
400V			
1000V			

RESISTANCE: (AUTO / MANUAL RANGING)

Range	Accuracy	Overload Protection		
400Ω				
4ΚΩ				
40ΚΩ	. (4.0) . = 1			
400ΚΩ	±(1% +5d)	250V DC or AC rms		
4ΜΩ				
$40 \mathrm{M}\Omega$				

Diode : Measure forward voltage drop. Reverse

Circuit. Voltage approx 1.5V. Input protected

up to 250V DC or AC rms.

Continuity: Buzzer sound if resistance $<50\Omega$.

Input protected up to 250V DC or AC rms.

ACCURACY:

- All accuracies are claimed from 10% of the range to 95% of range.
- o All claims of accuracy are at decade values i.e. 10, 100 etc.
- Accuracy is specified as ± (% of reading + offset in least count digits).
- Accuracy claim is at 23°C ± 3°C, 55% ±10% RH.

Note: Its use is not advised on Multi phase High Energy Circuits where heavy transients are likely to occur.

AC VOLTS: (AUTO / MANUAL RANGING)

Range	Frequency Response	Accuracy	Overload Protection	Input Impedance	
4V			DC1000V or AC 750V rms.	10MΩ 30pF	
40V	40Hz -400Hz	±(1.5% +10d)			
400V					
700V			AC 750 V IIIIS.	(Approx)	

CAPACITANCE: (AUTO RANGING)

Range	Accuracy	Overload Protection	Open Circuit Voltage
100μF	±(3% + 10d)	250V rms AC or DC	<0.8V

FREQUENCY:

1	Range	Accuracy	Sensitivity	Overload Protection
	10MHz	±(0.5% + 10d)	4V	250V rms AC or DC

DUTY CYCLE:

Range	Resolution	Sensitivity	Overload Protection
0.1% - 99.9%	0.1 %	4V	250V rms AC or DC

ENVIRONMENTAL:

Operating Temperature : 0°C to 40°C, <80%RH (Non Condensing). Storage Temperature : -10° to +60° < 80%RH (Non Condensing),

Battery Removed.

Temperature Coefficient: 0.1 X Accuracy / deg C.

POWER:

Power Source is one 9V Battery NEDA 1604 / 6F22 / 006P Auto Power OFF: 30 mins. of idle condition.



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AC/DC Leakage Clamp Meter DCM 600

Highly Accurate AC/DC Leakage Current Clamp-on Tester AC/DC 0~200mA/2000mA/10A

FEATURES

- Wide Application for process control and automotive service.
- The world's first AC/DC leakage current clamp tester with 0.1mA resolution.
- The least influence from the external magnetic field and noise with double shielding CT.
- Memory function for maximum Value and minimum value.
- For measurements of 4~20 mA current loop signal of transmission control.

SPECIFICATIONS

Measuring Method Dual integration method with true rms reading.

DC current, AC current (true rms reading) Measuring Function

max. hold, min. hold, data hold, auto power off.

31/2 digit LCD, max. reading of 1999. Display AC/DC 200mA, 2000mA, 10A. Range

Jaw Opening Capability 20 mm ø. Sampling 1.6 times/s.

Over Range Indication "OL" mark on LCD. **Data Hold Indication** "DH" mark on LCD. Low Battery Indication "=+>" mark on LCD. : 0.1mA / 1mA / 0.01 A. Resolution

Accuracy AC/DC Current: ± (3% of reading + 5digit).

(23°C ± 5°C, 80% RH or less)

Limitation of Circuit Voltage : Less than AC/DC 300 V.

Withstanding Voltage AC 2300V/1 minute max. between the core of CT & outer case.

0°C ~ 50°C, < 80% RH (Non - Condensing). **Operating Temperature** -20°C ~ 60°C, < 75% RH (Non - Condensing). Storage Temperature

1.5V("AA" size, UM-3) X2. **Power Supply Battery Life** 120 hours or more (Alkaline).

Auto Power Off The meter is set to power off mode approx. 10 minutes after

the power switch on.

76 (W) x 194 (H) x 30 (D) mm. Size

Weight Approx. 340 g.

a) Carrying Case....1 b) Instruction Manual....1 Accessories

c) Batteries2

SAFETY STANDARD

Compliant with IEC 1010-2-032, IEC 1010-1(1995) CATII 300V.

APPLICATIONS

- The typical application of DCM 600 is in Railways, Substations & Industries where the Leakage Current of Batteries, Chargers is to be measured.
- It is useful in Telecom Industries. 0
- It also measures Leakage Current in Variable Frequency Drives.
- The meter is very useful for measurements of current loop signal of transmission control.
- General AC Load / Process Loop monitoring, Ground fault Current Measurement, Industrial Trouble Shooting Checks etc.

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 products, we therefore reserve the Right of any deviation from illustration or specifications without notice. 4. Stated accuracies are valid from 1/10th of range to FS. 5. Accuracy Specified for temperature range of 25° C \pm 5° C & 55%RH \pm 10%





DBS/PC/DCM-07/Rev-03







Leakage Clamp Meter DCM 10 A

FEATURES

- 0.01 mA resolution for measuring earth leakage currents.
- 300 A range for standard current measurements.
- Analogue Bargraph Display for trending.
- Pocket sized and lightweight.
- o Jaw size 40mm Ø.

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GENERAL SPECIFICATIONS

Measuring Method : Dual integration mode

Measuring Function : Leakage current and load current
 Display : 3½ digit L.C.D. max. reading of 3200

Range : 0-30 mA / 300 mA / 30 A / 300 A (50/60 Hz)

Ranging : 2 manual ranges

Range	Min. Resolution	Accuracy
30/300mA	0.01/ 0.1 mA	±1.2% rdg ± 5dgt.
	The state of the s	0-200 A: ± 1.2% rdg ± 5 dgt.
30/300 A	0.01/ 0.1 A	200-250 A: ± 3.0 % rdg ± 5 dgt.
		250-300 A: ± 5.0%rdg ± 5 dgt.

Jaw Opening Capablity : 40 mmφ
 Maximum Indication : 3200 counts

■ Low Battery Indication : 2.5 V-2.7 V, "₹+- " mark on L.C.D.

Over load indication : "OL" mark on LCD
 Data Hold Indication : "DH " mark on L.C.D.

Sampling Time : Approx. 2 times / sec. (Digital Display)

approx. 12 times / sec (bargraph display)

Auto Power Off
 The Meter is set to power off mode approx.
 10 minutes after the power switch on

Limitation of Circuit : Less than AC 600 V

Voltage

Withstanding Voltage : AC 3700 V/1 minute max. (between the

core of CT and the unit housing)

Operating Temperature : 0°C to 40°C < 80% RH (non-condensing)
 Storage Temperature : -10°C to 60°C < 70% RH (non-condensing)

Accuracy Specified at

operating temperature : 23°C ± 5°C, 80% RH max

Power Supply2 X 1.5 V button cells LR44 or SR 44

Power Consumption : Approx 5 mw

Battery Life : Approx. 50 hrs (LR44)

Size : 64(W) X 176(H) X 23(D)mm.approx

Weight : Approx. 125g.

SAFETY

Meets the requirments for double insulation to IEC 1010-2-032, IEC 1010-1 (1995), EN 61010-1 (1995) installation Category II 600V phase to earth, Category III 300V phase to earth.

EMC

The instrument meets EN 50081-1 and EN50082-1 (1992).

APPLICATION

A typical application for the clamp-meter would be the measurement of earth leakage current in a circuit where the RCD keeps tripping out. The measured result will quickly identify whether the earth leakage current present is excessive causing the RCD to trip, or that the RCD itself is faulty. Standing earth leakage can be the result of various undetected faults in the installation such as cable insulation deterioration, cable damage or the entry of moisture into areas where there are exposed terminals or fittings.

The instrument is pocket sized, light weight, rugged and easy to use, making it an ideal choice for the electrical industry.

APPLICATION AREAS

- Ground fault current measurement
- Electrical safety compliance testing
- Medical device safety testing
- Process loop monitoring
- General AC load monitoring.
- Industrial troubleshooting checks

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WIIN AFFUNDABILII 1



- Average, $3\frac{1}{2}$ digit (2000 counts)
- Auto/Manual ranging mode
- 600V AC/DC & Up to 400A AC
- Temperature measurement
- · 23mm clamp jaw size
- · Overload indication 'OL'
- · Data Hold / Max Hold / Backlight







TECHNICAL SPECIFICATION

AC Current (through clamp)

Range	Resolution	Accuracy (% of reading)
2.000 A	0.001A	± (2.5% + 10 digits)
20.00 A	0.01A	20229 1011 10
200.0 A	0.1A	± (2.5% + 4 digits)
400 A	1A	± (3% + 4 digits)

DC-Voltage

Range	Resolution	Accuracy (% of reading)	Input Impedence
200.0 mV	0.1mV	± (0.8% + 5 digits)	
2.000 V	0.001V		•
20.00 V	0.01V	± (1.2% + 3 digits)	7.8MΩ
200.0 V	0.1V]	
600 V	1V	± (1.5% + 3 digits)	

AC Voltage

Range	Resolution	Accuracy (% of reading)	Input Impedence
200.0 mV	0.1mV	± (1.5% + 30 digits)	
2.000 V	0.001V		7.0040
20.00 V	0.01V	± (1.5% + 3 digits)	7.8ΜΩ
200.0 V	0.1V	1	
600 V	1V	± (2% + 4 digits)	

Note: No Auto ranging at 200mV AC voltage range

Resistance

Range	Resolution	Accuracy (% of reading)
200.0Ω	0.1Ω	± (1.0% + 4 digits)
2.000ΚΩ	0.001Ω	
20.00ΚΩ	10Ω	± (1.5% + 2 digits)
200.0ΚΩ	100Ω	7
2.000ΜΩ	1ΚΩ	± (2.0% + 3 digits)
20.00ΜΩ	10ΚΩ	± (3.0% + 5 digits)
Temperature	-20°C to 1000°C	± (3% + 5°C)

-4°F to 1832°F

Display: : LCD

Diode Test : Test current of 0.3mA typical; Open circuit voltage 1.5V DC typical

Continuity Check : Threshold <120Ω; Test current < 1mA

Sampling Rate : 2 per second, nominal

Low Battery Indication : "BAT" is displayed

Operating Temperature : -10°C to 50°C

Relative Humidity : 90% (0°C to 30°C), 75% (30°C to 40°C),

45% (40°C to 50°C)

Battery : Two 1.5V 'AAA' batteries

Safety : CE, EN 61010-1, CAT III 600V

Auto power off : approx. 15 mins at Temperature range

AC Current bandwidth : 50/60Hz

AC Voltage bandwidth : 50/400Hz

Dimensions/Weight : 201x69x35mm/200g approx.

Standard Accessories : Test leads, Calibration certificate, Instruction manual, Carrying case, Bead

K type thermocouple



Notes

(Type K)

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 products. We therefore reserve the Right of any deviation from illustration or specifications without notice.

± (3% + 8°F)









Digital Clamp Meter DCM 30A

FEATURES

- o 3½ digit (1999 counts) Backlit LCD Display with annunciators.
- Overload protection on all ranges.
- Size (HxWxD) 260 x 91 x 44.5 mm (approx.)
- Net Weight: 435.0 gms. (approx.)
- Max jaw opening: 50 mm. (approx.)
- Power: One 9V Battery Type 6F 22 or equivalent.

ELECTRICAL SPECIFICATION

DC-VOLTAGE

Range	Resolution	Accuracy	Input Impedance
200V	0.1V	± (1.0% + 2 dgt)	> 10 10
1000V	1V	± (1.0% + 2 dgt)	$\geqslant 10 \mathrm{M}\Omega$ approx.

Max Input Voltage: 1000V DC

AC-VOLTAGE

Range	Resolution	Accuracy	Input Impedance	Frequency Response
200V	0.1V	±(1.0% + 3 dgt)	≥ 10 MΩ approx.	40Hz - 400Hz
700V	1V	±(2.0% + 5 dgt)	≥ 10 Msz approx.	4011Z - 40011Z

Max Input Voltage: 750V AC True RMS.

AC-CURRENT (Through Clamp)

Range	Resolution	Accuracy
20A	10mA	± (2.0% + 5 dgt)
200A	0.1A	± (2.0% + 5 dgt)
1000A	1A	$\pm (2\% + 5 \text{ dgt}) \ge 600\text{A}$ $\pm (2\% + 5 \text{ dgt}) \le 600\text{A}$

Overload Protection: 120% of full value, Time < 60 seconds.

RESISTANCE

Range	Resolution	Accuracy
20 ΚΩ	10 Ω	± (1.5%+10dgt)
2 ΜΩ	1ΚΩ	± (1.5% · 10dgt)

Overload Protection: 250VDC or AC True RMS

FREQUENCY (Auto Ranging)

Range	Resolution	Accuracy	
2KHz	1Hz	± (0.1% + 3dgt)	
20KHz	10Hz		
200KHz	100Hz		
2MHz	1KHz		
20MHz	10 KHz		

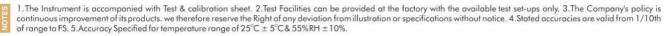
Continuity Diode Accessories Supplied Buzzer Sound if resistance < 30Ω
 Measures forward voltage drop

MOTWANE

a) One set of test lead.b) Operating manual.c) Carrying case.

d) One 9V Battery.

Overload Protection: 250V AC True RMS













- Average, $3\frac{3}{4}$ digits (4000 counts), Auto/Manual ranging
- · 1000V AC/DC & Up to 1000A AC
- 55mm clamp jaw size
- · Capacitance / Diode / Continuity / Frequency Testing
- · Auto power off / Data Hold / Zero Adjustment







TECHNICAL SPECIFICATION

AC Current (through clamp)

Range	Resolution	Accuracy (% of reading)
40.00 A	0.01A	± (2.5% + 10 digits)
400.0 A	0.1A	± (2.5 % + 5 digits)
1000 A	1A	± (3.0 % + 4 digits)

DC-Voltage

Range	Resolution	Accuracy (% of reading)	Input Impedence
4.000 V	0.001V		
40.00 V	0.01V	± (0.5% + 3 digits)	40140
400.0 V	0.1V		10ΜΩ
1000 V	1V		

AC Voltage

Range	Resolution	Accuracy (% of reading)	Input Impedence
400.0 mV	0.1mV	± (1.0% + 8 digits)	
4.000 V	0.001V		
40.00 V	0.01V	± (1.0% + 4 digits)	10ΜΩ
400.0 V	0.1V		
1000 V	1V	1	

Note: No Auto ranging at 400mV AC voltage range

Resistance

Range	Resolution	Accuracy (% of reading)
400.0Ω	0.1Ω	± (1.0% + 4 digits)
4.000ΚΩ	1Ω	
40.00ΚΩ	10Ω	± (1.0% + 2 digits)
400.0ΚΩ	100Ω	
4.000ΜΩ	1ΚΩ	± (1.5% + 3 digits)
40.00ΜΩ	10ΚΩ	± (2.0% + 3 digits)

Display : LCD

Capacitance (Auto ranging) : 40nF to 100µF (Refer user manual for details)

: 5Hz to 10MHz (Up to $\pm 1.2\%$ till 500KHz & Frequency

±1.5% for 10MHz)

Frequency (Sensitivity) : 10V rms min.

: 0.5 to 99.0% (±1.2% reading + 2 Duty cycle digits)

Pulse width 100µs - 100ms

: Test current of 0.3mA typical; Open circuit voltage 1.5V DC typical Diode Test

Continuity Check : Threshold <100 Ω ; Test current < 1 mA

Sampling Rate : 2 per second, nominal

Operating Temperature : -10 to 50°C

Relative Humidity : 90% (0°C to 30°C), 75% (30°C to 40°C),

45% (40°C to 50°C)

Battery : One "9V" Battery

Dimensions/Weight : 270 x 107 x 50mm / 500g approx.

: CAT III 1000V, CAT IV 600V Safety

Standard Accesories : Test leads, Calibration certificate, Instruction manual, Carrying case





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SINGLE SOLUTION DELIVERING

MULITPLE APPLICATION



- True RMS, $3\frac{3}{4}$ digits (4000 counts), Auto/Manual ranging
- . 600V AC / DC & Up to 1000A AC / DC
- NCV (Non contact voltage detector) detects presence / absence of voltage
- Temperature measurement
- · 52mm clamp jaw size
- · Overload indication 'OL'
- Auto Power off / Data Hold / Zero Adjustment/ Peak Hold





IECHNICAL SPECIFICATION

AC & DC Current (through clamp)

Range	Resolution	Accuracy (% of reading)
40.00 A	0.01A	± (2.8% + 10d)
400.0 A	0.1A	± (2.8% + 8d)
1000 A	1A	± (3.0% + 8d)

DC-Voltage

Range	Resolution	Accuracy (% of reading)	Input Impedence
400.0mV	0.1mV	± (0.8% + 2d)	
4.000V	0.001V		
40.00V	0.01V	± (1.5% + 2d)	10ΜΩ
400.0V	0.1V		
600V	1V	± (2.0% + 2d)	

AC Voltage

Range	Resolution	Accuracy (% of reading)	Input Impedence
400.0mV	0.1mV	± (1.0% + 10d)	
4.000 V	0.001V		
40.00 V	0.01V	± (1.5% + 5d)	10ΜΩ
400.0 V	0.1V	1	
600 V	1V	± (2.0% + 8d)	

Display : LCD

Low Battery Indication : is displayed

: 4nF to 40mF Capacitance (Auto ranging)

(Refer user manual for details)

Frequency : 4.0KHz (± (1.5% + 2d))

: 100V (<50Hz); 50V (50 to 400Hz); 5V (401 to 4000Hz) Frequency (Sensitivity)

: Test current of 0.3mA typical; Open circuit voltage 1.5V DC typical Diode Test

Continuity Check : Threshold 40Ω: Test current < 0.5mA

Peak : Captures peaks >1ms : 10MΩ (VDC and VAC) Input Impedance Sampling Rate : 2 per second, nominal Auto Power Off : After 30min approx.

Operating Temperature : 5°C to 40°C

Operating Humidity : Max 80% upto 87°F (31°C) decreasing

linearly to 50% at 104°F (40°C)

: One "9V" Battery Battery

Dimensions/Weight : 271 x 93 x 47mm / 500g approx.

Safety : CE, CAT IV 600V, CAT-III 1000V,

EN-61010-1

Standard Accessories : Test leads, Calibration certificate, Instruction manual, Carrying case,

Bead K type thermocouple

Resistance

Range	Resolution	Accuracy (% of reading)
400.0Ω	0.1Ω	± (1.0% + 4d)
4.000ΚΩ	1Ω	
40.00ΚΩ	10Ω	± (1.5% + 2d)
400.0ΚΩ	100Ω	
4.000ΜΩ	1ΚΩ	± (2.5% + 5d)
40.00ΜΩ	10ΚΩ	± (3.5% + 10d)

Temperature	-20°C to 760°C	± (3% + 5°C)
(Type K)	-4°F to 1400°F	± (3% + 9°F)





NCV Detect Voltage Electrical outlet Powercord Terminal strip







Digital Earth Clamp Tester

DECT-2

- Long jaw size: 65mm x 32mm Ø
- The unique long jaw is particularly suitable where grounding is done by flat steel or copper strips.
- Range: 0.01Ω to 1200Ω
- Resistance measurement resolution 0.001Ω
- Memory Storage capability of 99 records
- Alarm setting feature with selection range available from 1Ω to 199Ω
- Display 4 digits LCD, 47x28.5mm in length
- Double insulation level and also protected from External magnetic field as well as electric field.
- Automatic range selection, Automatic self calibration
- Automatic self calibration
- Single measuring time: 0.5 second.
- Improved Jaw Opening & Closing
- Soft touch keys



General Specifications:

Display	4 digit LCD , 47 mm X 28.5 mm	
Resistance Measurement Range	0.01Ω to 1200Ω	
Memory Storage Facility	99 records	
Single Measurement Time	0.5 Second	
Resistance Measurement Frequency	> 1 KHz	
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	
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:-10°C to 55 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	
	l	

Technical Specifications:

Mode	Range	Resolution	Accuracy
	0.010-0.099 Ω	0.001 Ω	$\pm(1\% + 0.01\Omega)$
	0.10-0.99 Ω	0.01 Ω	$\pm(1\% + 0.01\Omega)$
	1.0-49.9 Ω	0.1 Ω	$\pm(1\% + 0.1\Omega)$
	50.0-99.5 Ω	0.5 Ω	$\pm(1.5\% + 0.5\Omega)$
Resistance	100-199 Ω	1 Ω	$\pm (2\% + 1\Omega)$
	200-395 Ω	5 Ω	$\pm (5\% + 1\Omega)$
	400-590 Ω	10 Ω	$\pm(10\% + 10\Omega)$
	600-880 Ω	20 Ω	$\pm (20\% + 20\Omega)$
*	900-1200 Ω	30 Ω	$\pm (25\% + 30\Omega)$



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Applications:

- Measures Earth Resistance of the electrical ground rod and grid.
- 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.
- $\odot\,\,$ To find the resistance of earth pit.

Standard Accessories:

- Carrying Case
- \odot Standard Loop Resistance of 5.1 Ω
- Instruction Manual
- Calibration Certificate



DBS/PC/E1-02/Rev-02



DECT-3

Digital Earth Clamp Tester vvith Leakage Current ivieasurement

An ISO 9001:2000 Certified Company

Features:

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

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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 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		
	0.010-0.099 Ω	0.001 Ω	$\pm (1\% + 0.01\Omega)$		
	0.10-0.99 Ω	0.01 Ω	$\pm (1\% + 0.01\Omega)$		
	1.0-49.9 Ω	0.1 Ω	$\pm (1\% + 0.1\Omega)$		
	50.0-99.5 Ω	0.5 Ω	$\pm (5\% + 5\Omega)$		
Resistance	100-199 Ω	1 Ω	$\pm (5\% + 5\Omega)$		
	200-395 Ω	5Ω	$\pm (10\% + 10\Omega)$		
	400-590 Ω	10 Ω	$\pm (10\% + 25\Omega)$		
	600-880 Ω	20 Ω	$\pm (20\% + 30\Omega)$		
	900-1200 Ω	30 Ω	$\pm (25\% + 30\Omega)$		
Current	0-9 mA	0.05 mA	Unspecified		
	10-99 mA	0.1 mA	± (2.5% + 20mA)		
	100-300 mA	1 mA	± (2.5% + 20mA)		
	0.30-2.99 A	0.01 A	± (2.5% + 0.15mA)		
	3.0-9.9 A	0.1 A	± (2.5% + 0.5mA)		
	10.0-20.0 A	0.1 A	± (2.5% + 1A)		

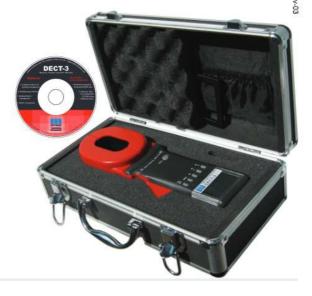
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Applications:

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



DBS/PC/ET-0:









Digital Earth Tester DET-20

FEATURES

- O 3½ digit LCD display with Max Reading 1999.
- Earth Resistance Ranges of 0.01Ω to 1999Ω .
- Rechargeable Internal Ni-MH Battery.
- o 4 Wire Soil Resistivity Measurement.
- Measurement Method 3 terminal & 4 terminal.

GENERAL SPECIFICATIONS

Earth Resistance Ranges

 0.01Ω To 19.99 Ω 0.1Ω Το 199.9 Ω 1Ω Το 1999 Ω

- 4 Wire Soil Resistivity Measurement.
- Measurement Method 3 terminal & 4terminal.
- Type Tested as per IS-9223.
- Earth Voltage Measurement up to 200V.

Accuracy (25° C ± 5° C)

± 1.5% of reading ±5 digits valid from 10% of reading to 95% of the range.

Earth voltage accuracy : 2% of Range.

Earth voltage resolution: 0.1V

Test Frequency: 128 Hz ±0.5 Hz

Test Current

20-Ohm Range : 10 mA AC rms : 1 mA AC rms 200-Ohm Range 2000-Ohm Ranges : 100 μA AC rms

Test current is generally constant throughout the range.

Interference voltages of 20 V ±5% peak-to-peak, 50 Hz in the potential circuit will have a maximum effect of $\pm 1\%$ on the reading obtained for the 20Ω to $2~k\Omega$ ranges.

Minimum Open Circuit Output Voltage: 36 V Approx.

Display: 31/2 digits LCD, max. Reading 1999

Influence of Temperature:

 $< \pm 0.2\%$ per °C over the temperature range 0-20°C and 28-55 °C.

Temperature Range:

Operating : 0°C to +55°C Storage : - 20°C to +70°C

Humidity

Operating : 95% RH non condensing max. at 40°C

: 93% RH max. at 55°C Storage

Flash Test : 3 kV AC.

Voltage Withstand

In the event of a system fault, the instrument will withstand 240V AC, applied between any two terminals.

Approx. 180 (H) x 100(W) x 54(D)mm. Dimensions

Weight Approx. 550gms.

Power supply Internal, rechargeable Ni-MH 1.2V, 600mAh x 8 Nos.

Charging time Recommended 16hrs.

Single Charge Battery Life: Approximately 5 - 6 hrs of continuous operation on mid ranges.

STANDARD ACCESSORIES

- 1. Operating Instruction Manual
- 2. Battery Charger.
- 3. Carrying bag containing
- a. Four spikes of 10 mm dia, 450 mm. long.
- b. 10 m, 20 m, 30 m & 40 m of cable on a winder as standard.
- c. Hammer

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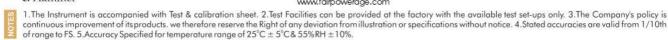
APPLICATION

- Outdoor Earth Testing.
- Substations.
- Captive Power Plants.
- Soil Resistivity for new Installations.



DBS/PC/ET-01/Rev-02

we have a solution



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







EMPOWERING MEASUREMENT



FEATURES

- 3 ½ LCD display, max reading "1999" with Low Battery & Polarity Indication.
- Max jaw opening: 25mm
- Measurement Speed of 2.5~3 times/sec
- Overload Protection on All Ranges and Functions
- Over Range Indication
- Data hold function
- 600 A AC measurement



Digital Clamp Ivieter

Motwane E25C is 3 1/2 digital clamp meter is a portable handheld Clamp meter with steady performance, safety, reliability and with full functions. The instrument has a unique and more attractive outline for convenient operation.

The instrument is designed with high-performance A/D converter and high grade SMD components. All the measuring ranges have overload protection.

AC current is measured through the clamp jaw with four ranges of 2000mA, 20A, 200A, 600A. The rest input through the test lead and can test AC Voltage, DC Voltage, Resistance, Diode and Continuity.

General Specifications:

- 3½ LCD display, max reading "1999" with LOBAT & Polarity Indication.
- Max jaw opening: 25mm
- · Measurement principle: double integration A/D transform.
- · Range select: manual
- Measurement speed: 2.5~3 times/sec
- Polarity display: it displays "-" as inputting negative polarity.
- Overloading display: only 1 appears on the display screen.
- Data hold function: "H" is shown on the top of LCD.
- · Low battery display: it displays on the left of LCD.
- Power supply: 2×1.5V
- Dimensions: 170×65×27 mm
- Weight: approx. 140g (without battery)
 Operating Temperature: 5 °C to 45 °C
 Storage Temperature: -10°C to 50°C

Technical Specifications:

Basic Functions	Range	Resolution	Accuracy		
	2000mA	1mA	±(3.0%+5)		
AC Current	20A	10mA	±(2.5%+5) ±(2.5%+5)		
	200A	0.1A			
	600A	1A	±(3.0%+5)		
AC Voltage	600V	1V	±(2.0%+5)		
DC Voltage	600V	1V	±(1.2%+2)		
Resistance	0-2000Ω	1Ω	±(2.0%+5)		
Diode Test		Yes			
Continuity Buzzer	Approx <40Ω				



Accessories:

User's manual Test lead Battery 2 x 1.5V







High voltage Detectors





The High Voltage Detector is a SAFETY DEVICE used to verify that the overhead line is not LIVE prior to earthing. It is suitable for 11 KV/ 33 KV / 132 KV / 220 KV/ 440 KV supply lines. It is powered by a single 9V battery. The HV Detector starts annunciation with flashing Red LED's and buzzer beeps indicating that the line is LIVE and not safe to earth and carry any operations.

FEATURES

- Olour code models for different voltage levels.
- Non contact type Probe.
- Indicates the presence of HIGH VOLTAGE by audio annunciation as well as visual indication.
- Bright high intensity RED LED'S provide clear visual indication even in unfavorable daylight conditions. A buzzer produces a loud beep which is audible even in noisy backgrounds.
- Supplied as a complete Kit with HV Detector Probe, Telescopic Fibre Glass Reinforced plastic Insulation stick and ergonomically designed sturdy Carrying bag.
- Self Test button to test battery and proper functioning of HV detector.
- Selectable sensing level 1m/3m/5m for HV-D 132/HV-D 220/HV-D 440
- Powered by a single 9V Battery type (6F22), Easily replaceable on field.
- Type tested at CPRI.



HV-50:

Safety Device Designed for 6.6 KV to 33 KV AC 50 Hz overhead lines in HV Switch yards, Distribution lines, Power Plants and similar installations. Sensing distance approx. 3 mtrs. for 33 KV and 1 mtr. for 11 KV circuit.



HV-132:

Safety Device Designed for 11 KV to 132 KV AC 50 Hz overhead lines in HV Switch yards, Transmissions lines, Power Plants and similar installations.







HV-220:

Safety Device Designed for 33 KV to 220 KV AC 50 Hz overhead lines in HV Switch yards, Transmissions lines, Power Plants and similar installations.

HV-440:

Safety Device Designed for 66 KV to 440 KV AC 50 Hz overhead lines in EHV Switch yards, Transmissions lines, Power Plants and similar installations.

GENERAL SPECIFICATIONS

HIGH VOLTAGE INDICATION :

RED LEDs start flashing with an audible buzzer if taken into High Voltage induction area.

TEST VOLTAGE RANGE :

Test Voltage range as per the models : HV-50 for 6.6 KV to 33 KV, HV-132 for 11 KV to 132 KV, HV-220 for 33 KV to 220 KV, HV-440 for 66 KV to 440 KV.

ELECTRICAL SPECIFICATIONS:

Insulation Resistance : Greater Than 100M Ohms by 1KV I.R. Tester.

Dielectric Strength : Equivalent or greater than as per model selected.

POWER SPECIFICATIONS:

Current Consumption: 30mA maximum **Battery Low**: 7.2 V Nominal

Battery : 9V / Battery type 6F22 or equivalent

Visual Indication : High Bright LEDs flashing Audible Indication : Buzzer beeps Loudly

ENVIRONMENTAL SPECIFICATIONS:

Recommended Operating

Temperature Range : 5°C to 50°C

Humidity : <85% RH non-condensing

Storage Temperature : 10°C to 60°C,

<85% RH non-condensing Range

UNIVERSAL LINK:

Material: Glass Filled NylonLength: 95mm Approximate

INSULATED STICK :

Material : Fibre Glass (Sturdy & Rugged)

Length : Telescopic Extendable length 3 mtrs.

for 33 KV & 5 mtrs. for 132 KV & above.

PHYSICAL SPECIFICATIONS :

Length: 245mm Approx.Diameter: 105mm Approx.Weight: Approx. 2.5Kg.including

Telescopic Insulated Stick.

Sturdy & Rugged telescopic extendable fibre glass rod with carrying bag.







H V Test Set

The Motwane make HV Test Set is used to verify the quality of insulation between any electrical equipment's current-carrying components and its insulation or enclosure. This is done by applying a high voltage (much higher than the normal working voltage of the equipment) to the insulation of the equipment and measuring the resulting leakage current flowing through its insulation.



Features

- Continuously variable out put from zero to full voltage.
- Digital Meters for output voltage and tripping current measurement.
- LED indications for HT and mains indication.
- Electronic fast acting over current tripping device for overload protections.
- Zero interlocking for safety.
- The out put voltmeter is with memory effect i.e even after HT supply trips off due to the failure of equipment under test ,the voltmeter continues to show the voltage at which test piece has failed.
- In built time interval meter for tripping time measurement.
- Natural air cooling or oil cooling facility for loading transformers.

Applications

- Electrical Equipments like Motors, Transformers, Generators, Switch Gears testing.
- Cable testing
- Domestic appliance testing.
- Power utilities substations.



Standard Models & Specifications

Model	Voltage	Current Capacity	Output Voltage Range	Burden Capacity	Input Supply	Display - KV meter & Current	Meter Accuracy	Timer	Duty Cycle	Mode of Operati on	Cooling	Portab le Unit	
MOTHVT - 5/100AC	5 KV AC		0 - 5 KV			3 ½ Digit LED Display	± 1.5% of reading	with trip circuit NC - C - NO	10		Air Cooled	Single Unit	
MOTHVT - 5/100DC	5 KV DC			500VA	000VA 500VA 230 Volts AC 50 Hz								
MOTHVT - 5/100AC-DC	5 KV AC - DC												
MOTHVT - 10/100AC	10 KV AC		0 -10 KV	1000VA									
MOTHVT - 10/100DC	10 KV DC	100mA											
MOTHVT - 10/100AC-DC	10 KV AC - DC												
MOTHVT - 15/100AC	15 KV AC		0 - 15	1500\/Δ									
MOTHVT - 15/100DC	15 KV DC		KV										
MOTHVT - 20/100AC	20 KV AC		0-20										
MOTHVT - 30/100AC	20 KV AC		KV	2000VA	2000VA								
MOTHVT - 40/100AC	40 KV AC		0-40 KV	900000000000000000000000000000000000000	0-40 KV	4000VA						Motoriz ed	
MOTHVT - 40/50DC	40 KV DC	50 mA				2000VA			± 2 % of				
MOTHVT - 50/100AC	50 KV AC		0-50 KV		000VA	Analog Display	nalog reading			eu	Oil Cooled	Two Unit	
MOTHVT - 50/100DC	50 KV DC	100mA		5000VA									
MOTHVT - 50/100AC-DC	50 KV AC-DC												

Warranty

 $Standard \ one \ year \ warranty \ against \ any \ manufacturing \ defects.$

^{*}Note: Customization as per customer requirement







UII Test Set

The Motwane make Oil Test Set is a single unit compact equipment to measure the di-electric strength of insulating oils of transformers and circuit breakers.

The most important function of insulating oil is to provide electrical Insulation under high electrical potential. The dielectric strength of insulating oil is a measure of the oil's ability to withstand electrical stress without failure. Any significant reduction in the dielectric strength will indicate that the oil is no longer able to perform this vital function, leading to failure of equipment.



Features

- Oil Test Set is suitable for conducting oil breakdown test as outlined in IS 6792:1992.
- Continuously variable out put voltages.
- A Linear scaled A.C. rectifier Voltmeter marked kV to measure output voltage.
- The out put voltmeter is with memory effect i.e show the voltage at which test piece has failed, after HT supply trips off due to the failure of equipment under test.
- Test Cup with cover is made of Methyle Methacrylate (ACRYLIC) having oil between 300 and 500 ml, with adjustable and removable mushroom head and ground to adjust the Electrode gap distance.
- Motorized cum Manual operation.

Applications

Oil Dielectric strength testing for transformer & switchgear manufacturers, Oil filtering units, electrical repairs & maintenance shops and power substations.



Standard Models & Specifications

Model -	OTS - 60	OTS - 80	OTS - 100						
Oil Break down Test Kit	60 KV	80 KV	100 KV						
Current Ranges	0 - 60 KV	0 - 80 KV	0 - 100 KV						
Input Supply	230 Volts 50H	230 Volts 50Hz							
Display	Analog Displa	Analog Display							
Meter Accuracy	± 1.5% of read	ding							
Breakdown	with trip circu	it							
Interlocking & Safety	H.T. ChamEarth ope	 H.T. Chamber door interlocking. Earth open interlocking. 							
Operation	Manual & Mo	Manual & Motorized Operation							
Protaction	Adeaquate Pr	Adeaquate Protection by FUSES against overheating and quick acting D.C. relay to isolate the H.T.							
Test Cup	22	Test Cup with cover is made of Methyle Methacrylate (ACRYLIC) having oil between 300 and 500ml, with adjustable and removable mushroom head and ground to adjust the Electrode gap distance.							
Standard	IS 6792 : 1992								
Accessories	Acrylic test cup with adjustable and removable mashroom head Mains supply cord GO & NOGO gauges Operation Manual								
222	5. Calibration	Certificate							
Optional	Stirrer								

Warranty:

 $\begin{tabular}{ll} \hline & Standard one year warranty against any manufacturing defects. \\ \hline \end{tabular}$





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Primary Current Injection Kit

The Motwane make Primary Current Injection Kit (Mot-PIK) is well suited to check the operation of all the components in a circuit breaker including Current Transformer, current sensors, relays and tripping unit performance of circuit breakers.

Features

- Compact equipment for ease of operation.
- Designed to offer continuously variable output current.
- Built in Digital timer for measuring tripping time.
- Digital meter of Accuracy class 0.5% or better and with LED display for input voltage & output current display.
- Equipped with adequate MCB against overload protection

Applications

Testing of Circuit Breakers, Bus Bars, CTs, Relays, MCBs, MCCBs etc by manufacturer as a well as during commissioning of protection systems and after major repairs and component replacement in power substations.

lecnnical Specification

- Input power Supply: 230 Volts ± 10 %, 50HZ AC
- Output Test Current : Refer Table no.1
- Burden (Capacity) : Refer Table no.1
- Mode of Operation : Manual or Motorized.
- Protections and Safety:
 - 1. Overload Protection by MCB
 - 2. HRCfuse protection for control circuit.
 - 3. Zero start interlocking.
- Indications: Bright LED Indicators for Input and Output Indication.
- Cooling: Air/Oil Cooling.





Standard Models & Specifications

		MOTPIK - 200/1	MOTPIK - 500/3	MOTPIK - 800/5	MOTPIK - 1000/5	MOTPIK - 1500/10	MOTPIK - 2000/15		
Primary Injection Kit		200 Amp	500 Amp	800 Amp	1000 Amp	1500 Amp	2000 Amp		
Current Range		0-100-200A	0-250-500A	0-400-800A	0-500-1000A	0-750-1500A	0-1000-2000A		
Output Voltage		100A-10V	250A-12V	400A- 12.5V	500A- 10V	750A-13V	1000A-15V		
		200A-5V	500A-6V	800A- 6.25V	1000A-5V	1500A-6.6V	2000A-7.5V		
Output Cu Resolution		1A	1A	1A	1.5A	1.5A	1.5A		
Burden Ca	apacity	1KVA	3KVA	5KVA	5KVA	10KVA	15KVA		
Input Sup	ply Voltage	230 V AC 50Hz							
Display		3 ½ Digit LED Disp	lay						
Timer Ran	ige	0.0001 sec to 999	9 sec						
		Accuracy :- ± 0.05	5%						
Display Accuracy ± 1.5% of rdg. ± 2 digit									
Duty Cycle	e	10 Min ON & 20 M	∕lin OFF At full rang	e current	,				
Operation	i	Manual			Motorized				
Timer		With Trip Circuit (NC – C – NO)							
Protection Adeaquate Proctection by Circuit Breakers, Fuses against overheating and damage						amage			
Transport	ation	The test set shall	be wheel mounted	for easy transporta	tion	2			
Max.	Cable Length	2X5 Meter	2X5 Meter	2X5 Meter	2X5 Meter	2X7 Meter	2X10 Meter		
Output Current	Cable Size	50 mm²	120 mm²	185 mm²	240 mm²	300 mm²	400 mm ²		
		1. Set of current lead set with Lugs (Both Side)							
		2. Power Supply cord							
		3. Test leads set for Relay Test							
Accessories		4. One set of spare fuse							
		5. Operation manual							
		6. Wheel mounted transportation							
		7. Calibration cert	ificate						

*Note: Customization as per customer requirement

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Relay lest Set

The Motwane make Relay Test Set (Mot-RTS) is a portable equipment, which is designed to check the operating characteristics of protective devices

Protective devices such as relays in the system are installed to deal with various fault conditions and its failure to operate correctly can cause serious damage to substations causing plant shutdown or power outgoes resulting in financial losses.



Features

- Single compact unit equipment suitable for field as well as workshop application.
- Offer specified out put current selectable and continuously variable.
- Digital Meter with LED display to measure output currents and voltages
- Built in 1 no Digital Time interval meter having range from 0.0001sec. to 9999 sec.
- Auto cut off facility to cut off output on operation of device under test.
- Housed in powder coated steel cabinet.

Applications

Testing of Electromagnetic relays like Over current, Earth Fault, Over voltage, Under Voltage etc. for assurance of smooth and fault free operations in plants and power substations.

Standard Models & Specifications

Model -	MOTRTS - 10	MOTRTS - 20	MOTRTS - 50	MOTRTS - 100	MOTRTS - 200				
Secondary Injection Kit - Single Phase	10 Amps	20 Amps	50 Amps	100 Amps	200 Amps				
Current Ranges	0 - 1 - 5 - 10	0 - 1 - 5 - 10 - 20	0 -1 - 5 - 10 - 25 - 50	0 -1 - 5 - 10 - 25 - 50 - 100					
Output AC Voltage	0 - 270 Volts AC Variable								
Output DC Voltage	0 - 270 Volts DC Var	iable							
Input Supply	230 Volts 50Hz								
Burden Capacity	200 VA	200 VA	400 VA	600 VA					
Display	3 ½ Digit LED Display	/							
Meter Accuracy	± 0.5% of reading	± 0.5% of reading							
Timer Range	0.0001 - 9999 Sec								
Timer	with trip circuit (NC - C - NO)								
Duty Cycle	20 Minutes ON and	10 Minutes OFF							
Operation	Manual Operation								
Protaction	Adequate Protection	Adequate Protection by FUSES against overheating and damages							
Portable Unit	The Test Kit shall be	wheel mounted for ea	asy transportation						
Accessories	PVC insulated 2.5 mm mm. copper cable 2 X 1.5 mtrs. Both side lugs PVC insulated 10 sq. mm. copper cable 2 X 1.5 mtrs. Both side lugs PVC insulated 25 sq. mm. copper cable 2 X 1.5 mtrs. Both side lugs								
	PVC insulated 2.5 sq. mm. copper cable 2 X 4 mtrs. one side banana plug & other side small crocodile clip								
	PVC insulated 1.5 sq. mm. copper cable 4 X 4 mtrs. one side banana plug & other side small crocodile clip								
	PVC insulated 1.5 sq. mm. two core copper cables for input supply.								
	Operation Manual								
	Calibration Certificate								

*Note: Customization as per customer requirement

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