



CLM100

Cable Length Meter

The CLM100 benefits both contractors and distributors by measuring cable length on the spool or installed cable length. The meter's value-conscious design makes it very affordable. A built-in temperature compensation circuit automatically takes into account the temperature of the wire for an accurate reading. Special Kelvin Clips enhance useability further by simplifying lead to cable connections

Measures

- Copper and aluminum cable
- 15 ~ 30,000 ft.
- Wire Size: 26ga ~ 4/0ga
- 250 MCM ~ 500 MCM
- Resistance 65Ω

Features

- Automatic temperature compensation
- Measures in feet and meters
- Milliohm measurement capability
- Easy-to-attach kelvin clips
- 5 Year limited warranty

**Included in
this Data Sheet**

**CLM100, DCM3, DMEG3,
IRT3, IRT20, PSMR1,
& Electrical Testers**



IRT3
*Analog
Insulation
Resistance
Tester*



DMEG3
*Digital
Insulation
Resistance
Tester*

Functions



CLM100 Cable Length Meter

- Measures copper and aluminum cables
- Measures 15 ~ 30,000'
- Wire size: 26 ga ~ 4/0 ga
- 250 MCM ~ 500 MCM
- Resistance 65Ω
- Read in feet or meters

Features

- Automatic temperature compensation
- Milliohm measurement capability
- Auto off
- Two easy-to-attach Kelvin Clip leads connect to cable
- 5 Year limited warranty



DCM3 Digital Capacitance Meter

- 9 ranges
- 200pF ~ 20mF (20,000uF)
- Zero adjustment
- Over range indicator
- Polarity indicator

- Quick display refresh rate
- Fuse protected input
- Low battery indication
- 3.5 digit LCD display 1999/count
- 1 Year limited warranty

Includes

- Test leads(ATL190)
- Calibration bar(15154)
- Hard carrying case.....(AC504)
- Battery 9V
- Manual

- Test leads
- Battery 9V
- Manual

Specifications

CLM100

Resistance Range	0 to 65Ω with 1 mΩ resolution
Temperature Compensation	Automatic
Length Accuracy	± (2% reading + 3 digits) 65° ~ 75°F ± (3% reading + 3 digits) below 65°/above 75°F
Wire Size	26 ga ~ 4/0 ga 250 MCM ~ 500 MCM
Length	15 ~ 30,000 feet

DCM3

Range	Resolution	Accuracy	Test Frequency
200 pF	0.1 pF	±1% reading	820 Hz
2000 pF	1 pF		
20 nF	10 pF	+ 3 dgt	82 Hz
200 nF	100 pF		
2 μF	1 nF	+2% reading + 3 dgt	8.2 Hz
20 μF	10 nF		
200 μF	100 nF		
2000 μF	1 μF		
20 mF	10 μF	+4% reading +9 dgt	

Accessories

- Test Leads** ATL55 (IRT3, DMEG3)
- Test Leads** ATL190 (CLM100)
- Hard Carrying Case** AC504 (CLM100)



IRT3 Analog Insulation Resistance Tester



- AC Voltage measurement to 600 Volts
- Insulation resistance readings from 0 ~ 400 MΩ
- Three test-voltage ranges (250, 500, 1000 V DC)
- Maintains rated voltage on cables at up to 1 mA leak-rate
- Precision, low resistance test leads (1000 Volt CAT III rated)

- Fuse protected against accidental misuse
- Low battery indication
- Automatic, post-test cable discharge
- Rugged, compact case with latching cover
- Large high-contrast analog display
- 3 Year limited warranty

- Test leads(ATL55)
- Fuse(AF21)
- Alligator clips
- Hard carrying case
- Batteries (8) AA
- Manual

IRT3

Function	Range	Accuracy
Insulation Resistance	0 ~ 50MΩ (250 DC V ±10%) 0 ~ 100MΩ (500 DC V ±10%) 0 ~ 400MΩ (1000 DC V ±10%)	±5% rdg (approximately)
Short Circuit Current	0 ~ 50MΩ: 2 DCmA, 0 - 100MΩ: 2 DCmA, 0 ~ 400MΩ: 2 DCmA	
AC Voltage	0 ~ 600V Frequency 40-1kHz	±2.5% ±3 dgt
Continuity	0 ~ 50Ω	±2.5% Full Scale
Open Circuit Terminal Voltage	4V DC min.	
Short Circuit Terminal Current	240mA DC min.	
Safety Requirements	IEC-1010 safety requirements category III	
Power Consumption	Max current approximately 190mA @ 12V DC	
Dimensions	6.7 x 6.5 x 3.6 inches (170 x 165 x 92 mm)	
Weight	2.1 lb. (batteries included)	

DMEG3 Digital Insulation Resistance Tester



- 600V AC measurement capability
- Auto-ranging insulation resistance ranges 0 ~ 2000Ω
- Three test-voltage ranges (250, 500, 1000V DC)
- 200 mA short-circuit continuity test current for high accuracy
- Precision resistance 0.01
- Precision, low resistance test leads (1000 Volt CAT III rated)
- Automatic post-test cable discharge

- Large digital display that shows the test function and measured value
- Live circuit warning light
- Fuse protected
- Audible continuity
- Green LED power-on indicator
- Low battery indication/detection
- Maintains rated voltage on cables with up to 1 mA leak-rate
- Rugged compact case with protective cover
- 3 Year limited warranty

- Test leads(ATL55)
- Fuse(AF21)
- Battery (8) AA
- Manual

DMEG3

Range	Resolution	Accuracy
0 ~ 200 MΩ (250V, 500V DC ±10%) 0-2000 MΩ (1000V DC ±10%)	1 count = 100kΩ 1 count = 1MΩ	±1.5% ±5 dgt ±3% ±3 dgt (0 ~ 1000MΩ) ±5% ±5 dgt (0 ~ 2000 MΩ)
Sustained Current	1mA DC min @ 0.25MΩ for 250V range 1mA DC min @ 0.5MΩ for 500V range 1mA DC min @ 1MΩ for 1000mA	
AC Voltage	0 ~ 600V Frequency 40 ~ 120Hz	1V ±1.5% ±3 dgt
Continuity	0 ~ 20Ω 0 ~ 2000Ω	0.01Ω ±1.5% ±5 dgt 1Ω ±1.5% ±3 dgt
Open Circuit Terminal Voltage	Continuity 4V DC min.	
Short Circuit Terminal Current	Continuity 210mA DC min.	
Power Consumption	Max current approximately 160mA	
Audible Alarm	Sounds @ < 10Ω in 20Ω range	
Safety Requirements	EC-1010 safety requirements category III	
Dimensions	6.7 x 6.5 x 3.6 inches (170 x 165 x 92 mm)	
Weight	2.1 lb (batteries included)	

IRT20 Hand-Cranked Insulation Resistance Tester



- Insulation resistance 0 ~ 1000MΩ
- 1000, 500 and 250 Volt output ranges
- Damping time exceeds 4 seconds

- Sealed, water resistant rugged metal housing
- Hand-crank power supply
- Accurate to within one division
- 1 Year limited warranty

- Test leads(ATL91)
Manual

PSMR1 Phase Sequence Motor Rotation Tester



- Three functions in one unit
- Open phase indication
- Phase rotation sequence
- Motor rotation indication (fused)
- Input voltage: 100V ~ 600V AC
- Frequency range: 45 ~ 70Hz

- Identifies 3-phase sequence
- Checks for open phase
- Battery operated (9V)
- 3 Year limited warranty

- Test leads(ATL190)
Soft carrying case(AC319)
Manual

IRT20

PSMR1

Voltage	Range	Scale Drive
250V	.01 ~ 250 MΩ	.05 M
500 V	.01 ~ 500 MΩ	.1 M
1000 V	.01 ~ 1000 MΩ	.2 M
Accuracy at 77°F (20°C)	±1% of full scale	
Insulation Resistance AT 77°F (20°C)	Not less than 20 M	
Damping Time	Better than 4 seconds	
Dimensions	215 mm x 120 mm x 150 mm	

Input Voltage	100 VAC ~ 600 VAC max
Frequency Range	45 ~ 70 Hz
Battery	9V alkaline battery
Installation	IEC-1010, 600V, CAT III
Category Dimensions:	6.02" (L) X 2.83" (W) X 1.37" (D) (135mm X 72mm X 35mm)
Weight	Approx. 6.37 oz (182g) including battery
Environmental Conditions:	Indoor use Installation Category III Pollution degree 2 Altitude up to 2000 meters Relative humidity 80% max. Ambient temperature 32 ~ 104°F (0 ~ 40°C)

Alligator Clips	AAC3 (DCM3, IRT3)
Fuse	AF21 (IRT3, DMEG3)
Test Leads	ATL91 (IRT20)
Soft Carrying Case	AC319 (PSMR1)



AAC3



AF21



ATL91



AC319

ELECTRICAL TESTERS

Portable Electrical Testers



ECT690 Electrical Tester

- Features**
- AC Volts 12 ~ 690
 - DC Volts 6 ~ 220
 - Continuity
 - 1 Year limited warranty

- Includes**
- Battery (2) AA
 - Manual



ECT1K Continuity Tester

- Features**
- Continuity
 - Indicator light
 - 1 Year limited warranty

- Includes**
- Battery (2) AA
 - Manual



PET1 Pocket Electrical Tester

- Features**
- Worklight
 - Non-contact AC voltage test: from 12 ~ 600V AC (with adjustable sensitivity)
 - Detects high and low AC Voltage
 - Continuity check : 0 ~ 80 MΩ
 - 3 Year limited warranty

- Includes**
- Battery (2) AB13
 - Manual



ECT460K Voltage Tester

- Features**
- Scaled AC V indicators
 - 110 ~ 480V
 - 1 Year limited warranty

- Includes**
- Manual



NCV2 Pocket Electrical Tester

- Features**
- Non-contact AC voltage test: from 50 - 1000V AC
 - 50 - 60Hz
 - Bright LED Indicator
 - Audible Alert
 - Built in Battery Tester
 - 3 Year limited warranty

- Includes**
- Battery (2) AAA
 - Manual



MA1 AC Ammeter

- Features**
- Ranges: 0 ~ 1.2A AC
 - Accuracy: ±3% of full scale
 - 1 Year limited warranty

- Includes**
- Manual



ECTGFI Ground Fault Indicator

- Features**
- 110V AC outlets
 - 1 Year limited warranty

- Includes**
- Manual



ECT120 Electrical Tester

- Features**
- 110 AC outlets
 - 1 Year limited warranty

- Includes**
- Manual

CAN'T FIND WHAT YOU'RE LOOKING FOR?...

UEi offers a full line of HVAC/R and Combustion Testing equipment. We have grouped our products specifically to make it easy to find what you're looking for. Here are a few related products and data sheets. For a complete list visit: www.ueitest.com

Product Part # or Group	LIT #
Digital Multimeters	L332
Digital Clamp Meters	L333
Industrial Combustion	L334
Analog Clamp & Multimeters	L339
A/C & Refrigeration	L351
Digital Temperature Testers	L352
Humidity & Air Flow Products	L353

RELATED PRODUCTS

Digital Mutimeters: Lit #L332



DM200
Digital Multimeter



DM384
Digital Multimeter



DM383B
Digital Multimeter



DM391
Digital Multimeter

Digital Clamp Meters: Lit #L333



DL369
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CH3
*Extended Clamp Head
For DL379 & DL389*



DL389KIT
G2PHOENIX PRO
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*Extended Clamp Head
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