



Hoyt Insulation & Multifunction Testers

Insulation & Multifunction Testers (LCD Display)

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Insulation & Multifunction Testers (OLED Display)

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Insulation & Multifunction Testers (LCD)



1151 IN Insulation & Multifunction Tester Electrical / Installations

Features

- Microprocessor-controlled.
- Automatic voltmeter AC/DC at Start/Reset.
- Auto range
- Auto off.
- Battery test.
- Battery test at Switch ON/Reset.
- Safety voltmeter before each test.
- Auto discharge on all test and all ranges.
- Leads Auto-null key.
- Test Auto-stop.
- Smart hold & stop on voltmeter ac/dc.
- Ener-Save feature to extend battery life.
- Continuity short circuit current > 220mA.
- Continuity open circuit voltage of 5Vdc.
- Nominal voltage @ 1mA on all insulation ranges.
- Accept 8 rechargeable batteries or Alkaline of normal.
- BS 16 edition.

Specifications

Insulation Resistance

Test voltage	250V / 500V / 1000V
Measuring ranges	0.2M~2GΩ / 0.2M~4GΩ / 0.2M~8GΩ
Continuity Range	0.01Ω~1999Ω
Accuracy	0.1MΩ~4GΩ : ±3%rdg 4GΩ~8GΩ : ±5%rdg
PI Function	√
DAR Function	√

Voltmeter (Autoranging)

Range Accuracy	0 ~ 700Vac ±1.5% F.S. ±1V
& Resolution	0 ~ 950Vdc ±1.5% F.S. ±1V
Auto-Hold	√

Continuity Short Circuit Current > 220mA

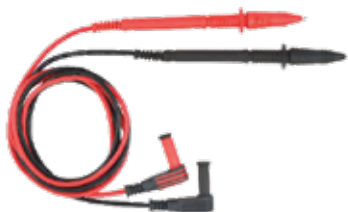
Range / Accuracy	0.01 ~ 100Ω ±1%rdg 100 ~ 300Ω ±1.5%rdg 300 ~ 1999Ω ±2%rdg
Auto-Null	Up to 5Ω
Buzzer Threshold Value	Up to 3Ω

General

Battery load current	Approx. 300mA
L.C.D type	Large Type 2 × 16 Characters
Auto-off Approx.	5 minutes
Fuse	Fast HBC 500mA 600V (5 × 20mm)
Operating temperature	0°C to 40°C not in full sun
Storage temperature	-10°C to 50°C
Dimensions	175(L) × 85(W) × 75(D)mm
Weight (battery included)	Approx. 655g
Power source	1.5V (AA) × 8 Alkaline batteries
Auto discharge on all test and all ranges	√
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1

CE

AL-24-5



AL-21C2-4



CAC-1151



BET-1800



Accessories

- Instruction manual
- Test leads
- Shoulder belt
- Soft pouch
- Batteries

Insulation & Multifunction Testers (LCD)

1152 MF Insulation & Multifunction Tester Electrical / Installations / Maintenance / Analysis

Features

- Microprocessor-controlled.
- Automatic voltmeter AC/DC at Start/Reset.
- Auto range
- Auto off.
- Battery test.
- Battery test at switch ON/Reset.
- Safety voltmeter before each test.
- Auto discharge on all test and all ranges.
- Leads Auto-Null key.
- Test Auto-Stop.
- Smart hold & stop on voltmeter ac/dc.
- Ener-Save feature to extend battery life.
- Continuity short circuit current > 220mA.
- Continuity open circuit voltage of 5Vdc.
- Nominal voltage @ 1mA on all insulation ranges.
- Accept 8 rechargeable batteries or Alkaline of normal.
- BS 16 edition.

Specifications

Insulation Resistance

Test voltage	250V / 500V / 1000V
Measuring ranges	0.2M~2GΩ / 0.2M~4GΩ / 0.2M~8GΩ
Continuity Range	0.01Ω~1999Ω
Accuracy	0.1MΩ~4GΩ : ±3%rdg 4GΩ~8GΩ : ±5%rdg
PI Function	√
DAR Function	√

Voltmeter (Autoranging)

Range Accuracy & Resolution	0 ~ 700Vac ±1.5% F.S. ±1V 0 ~ 950Vdc ±1.5% F.S. ±1V
Auto-Hold	√

Continuity Short Circuit Current > 220mA

Range / Accuracy	0.01 ~ 100Ω ±1%rdg 100 ~ 300Ω ±1.5%rdg 300 ~ 1999Ω ±2%rdg
Auto-Null	Up to 5Ω
Buzzer Threshold Value	Up to 3Ω

Metal Oxide Varistor (MOVs) & Gas Arrester (GAS) Voltage Result @ 1mA

Test Voltage / Accuracy	5 ~ 1020V ±3%rdg±2dgt
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General

Battery load current	Approx. 300mA
L.C.D type	Large Type 2 × 16 Characters
Auto-off Approx.	5 minutes
Fuse	Fast HBC 500mA 600V (5 × 20mm)
Operating temperature	0°C to 40°C not in full sun
Storage temperature	-10°C to 50°C
Dimensions	175(L) × 85(W) × 75(D)mm
Weight (battery included)	Approx. 655g
Power source	1.5V (AA) × 8 Alkaline batteries
Auto discharge on all test and all ranges	√
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1



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AL-24-5



AL-21C2-4



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BET-1800



Accessories

Instruction manual
Test leads
Shoulder belt
Soft pouch
Batteries

Insulation & Multifunction Testers (LCD)



CE

1154 TMF Insulation & Multifunction Tester Electrical / Installations / Telecoms / Maintenance

Features

- Microprocessor-controlled.
- Automatic voltmeter AC/DC at Start/Reset.
- Auto range
- Auto off.
- Battery test.
- Battery test at switch ON/Reset.
- Safety voltmeter before each test.
- Auto discharge on all test and all ranges.
- Leads Auto-Null key.
- Test Auto-Stop.
- Smart hold & stop on voltmeter ac/dc.
- Ener-Save feature to extend battery life.
- Continuity short circuit current > 220mA.
- Continuity open circuit voltage of 5Vdc.
- Nominal voltage @ 1mA on all insulation ranges.
- Accept 8 rechargeable batteries or Alkaline of normal.
- BS 16 edition.

Specifications

Insulation Resistance

Test voltage	50V / 100V / 125V / 250V / 500V / 1000V
Measuring ranges	0.1M~400MΩ / 0.1M~800MΩ / 0.1M~1GΩ / 0.2M~2GΩ / 0.2M~4GΩ / 0.2M~8GΩ
Continuity Range	0.01Ω~1999Ω
Accuracy	0.1MΩ~4GΩ : ±3%rdg 4GΩ~8GΩ : ±5%rdg.

Voltmeter (Autoranging)

Range Accuracy	0 ~ 700Vac ±1.5% F.S. ±1V
& Resolution	0 ~ 950Vdc ±1.5% F.S. ±1V
Auto-Hold	√

Continuity Short Circuit Current > 220mA

Range / Accuracy	0.01 ~ 100Ω ±1%rdg
	100 ~ 300Ω ±1.5%rdg
	300 ~ 1999Ω ±2%rdg

Auto-Null	Up to 5Ω
Buzzer Threshold Value	Up to 3Ω

Metal Oxide Varistor (MOVs) & Gas Arrester (GAS) Voltage Result @ 1mA

Test Voltage / Accuracy	5 ~ 1020V ±3%rdg±2dgt
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AL-24-5



AL-21C2-4



CAC-1151



BET-1800



Accessories

- Instruction manual
- Test leads
- Shoulder belt
- Soft pouch
- Batteries

General

Battery load current	Approx. 300mA
L.C.D type	Large Type 2 × 16 Characters
Auto-off Approx.	5 minutes
Fuse	Fast HBC 500mA 600V (5 × 20mm)
Operating temperature	0°C to 40°C not in full sun
Storage temperature	-10°C to 50°C
Dimensions	175(L) × 85(W) × 75(D)mm
Weight	Approx. 655g (battery included)
Power source	1.5V (AA) × 8 Alkaline batteries
Auto discharge on all test and all ranges	√
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1

Insulation & Multifunction Testers (LCD)

1155 TMF Insulation & Multifunction Tester Electrical / Installations / Telecoms / Maintenance / Analysis

Features

- Microprocessor-controlled.
- Automatic voltmeter AC/DC at Start/Reset.
- Auto range
- Auto off.
- Battery test.
- Battery test at switch ON/Reset.
- Safety voltmeter before each test.
- Auto discharge on all test and all ranges.
- Leads Auto-Null key.
- Test Auto-Stop.
- Smart hold & stop on voltmeter ac/dc.
- Ener-Save feature to extend battery life.
- Continuity short circuit current > 220mA.
- Continuity open circuit voltage of 5Vdc.
- Nominal voltage @ 1mA on all insulation ranges.
- Accept 8 rechargeable batteries or Alkaline of normal.
- BS 16 edition.

Specifications

Insulation Resistance

Test voltage 50V / 100V / 125V / 250V / 500V / 1000V

Measuring ranges 0.1M~400MΩ / 0.1M~800MΩ / 0.1M~1GΩ / 0.2M~2GΩ / 0.2M~4GΩ / 0.2M~8GΩ

Continuity Range 0.01Ω~1999Ω

Accuracy 0.1MΩ~4GΩ : ±3%rdg 4GΩ~8GΩ : ±5%rdg.

PI Function ✓

DAR Function ✓

Voltmeter (Autoranging)

Range Accuracy 0 ~ 700Vac ±1.5% F.S. ±1V
& Resolution 0 ~ 950Vdc ±1.5% F.S. ±1V

Auto-Hold ✓

Continuity Short Circuit Current > 220mA

Range / Accuracy 0.01 ~ 100Ω ±1%rdg
100 ~ 300Ω ±1.5%rdg
300 ~ 1999Ω ±2%rdg

Auto-Null Up to 5Ω

Buzzer Threshold Value Up to 3Ω

Metal Oxide Varistor (MOVs) & Gas Arrester Voltage Result @ 1mA

Test Voltage / Accuracy 5 ~ 1020V ±3%rdg±2dgt

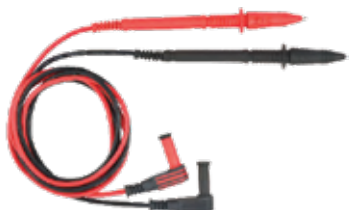
General

Battery load current Approx. 300mA
L.C.D type Large Type 2 × 16 Characters
Auto-off Approx. 5 minutes
Fuse Fast HBC 500mA 600V (5 × 20mm)
Operating temperature 0°C to 40°C not in full sun
Storage temperature -10°C to 50°C
Dimensions 175(L) × 85(W) × 75(D)mm
Weight Approx. 655g (battery included)
Power source 1.5V (AA) × 8 Alkaline batteries
Auto discharge on all test and all ranges ✓
Safety standard EN 61010-1 CAT III 600V,
EN 61326-1

CE



AL-24-5



AL-21C2-4



CAC-1151



BET-1800



Accessories

Instruction manual
Test leads
Shoulder belt
Soft pouch
Batteries

Insulation & Multifunction Testers (LCD)



CE

Features

- Auto-range microprocessor-controlled.
- Insulation test voltages : 250V, 500V, 1000V.
- Mov / protection devices test.
- Gas Arrester function.
- Automatic voltmeter AC/DC at Start/Reset.
- Test ON-OFF.
- Battery test.
- Safety voltmeter before each test.
- Auto-discharge on all test and all ranges.
- Leads Auto-null key.
- Test Auto-stop.
- Smart hold & stop on voltmeter AC/DC.
- Ener-Save™.

Accessories

Instruction manual
Test leads
Auxiliary earth spikes
Simplified measurement probe
Shoulder belt
Batteries



AL-21C2-4



TOC-2751
(Optional)



AL-24-5

CCO-2700 B

2788 MF Insulation & Multifunction Tester (LCD Display)

Specifications

Insulation Resistance			
Test voltage (DC V)	250V	500V	1000V
Measuring ranges	0.2MΩ~2GΩ	0.2MΩ~4GΩ	0.2MΩ~8GΩ
Accuracy	0.2MΩ~4GΩ : ±3%rdg 4GΩ~8GΩ : ±5%rdg		
Nominal voltage rated	1mA		
Short circuit current	1.2mA		
PI Function	√		
DAR Function	√		
Continuity			
Range	0.01~100Ω	100 ~300Ω	300~1999Ω
Resolution	2 counts		
Accuracy	0.01~100Ω : ±1.0%rdg 100~300Ω : ±1.5%rdg 300~1999Ω : ±2.0%rdg		
Auto-null	up to 5Ω		
Buzzer	up to 3Ω		
KΩ Test			
Ranges	1~400kΩ		
Short circuit test current	≥1.3mA		
Voltmeter			
DC voltage	0-950V		
AC voltage	0-700V		
Resolution	1V		
Accuracy	±1.5% rdg		
Mov Test			
Measuring range	5~1020 Vdc		
Accuracy	±(3%rdg + 2dgt)		
Diode Test			
Max test current	1.5 mA		
Resolution	0.1V		
Measurement voltage	0-4.5V		
Accuracy	±3% rdg		
GAS Arrester Test			
Measuring range	5~1020 Vdc		
Accuracy	±(3%rdg + 2dgt)		

General

Fuse	500mA 250V (5 × 20mm) HBC. Fast Blow
Display	2 lines × 16 characters LCD
Operating temperature	0°C to 40°C
Storage temperature	10°C to 50°C
Dimensions	205(L) × 90(W) × 55(D)mm
Weight (battery included)	Approx. 1460g
Power source	1.5V (AA) × 6 Alkaline batt.
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1

Insulation & Multifunction Testers (LCD)



CE

Features

- Microprocessor-controlled.
- Measures Insulation Resistance, Voltage (AC-DC) measurements.
- Automatic hold facility.
- Continuity test with a short circuit current of minimum 200mA.
- Energy conservation is feature.
- EnerSave™ limits the test duration to about 10 Seconds to save energy.
- No moving parts. All calibration are saved internally in a non volatile memory.
- Easy calibration at any facility around the world.
- Low cost maintenance, calibration, and ownership.
- Complies to all the latest regulations, including UK.

Accessories

Instruction manual
Test leads
Shoulder belt
Batteries

4101 IN Insulation & Multifunction Tester (LCD Display)

Specifications

Insulation Test

Test voltage (DC V)	250V	500V	1000V
Output voltage @ 1mA	Rated test Voltage +10% Max		
Measuring ranges	0.2M~2G	0.2M~4G	0.2M~8GΩ
Accuracy	0.2M~4GΩ : ±3%rdg 4GΩ~8GΩ : ±5%rdg		

When voltage is constant,

Current is limited at	1.2mA
Short circuit current	4mA Max.

Continuity Test

Measuring ranges	0.01-1999Ω
Accuracy	0.01-100Ω : ±1.0%rdg 100-300Ω : ±1.5%rdg 300-1999Ω : ±2.0%rdg

Short circuit current >220mA

Open circuit voltage 5V dc

Resolution ±2 counts

Voltmeter

AC voltage (Auto)	0-700V
DC voltage (Auto)	0-950V
Accuracy	±1.5% rdg
Resolution	±1V

Protections

Over load	700V (between all terminals)
Over voltage	Class III-700V towards ground
Fuse	500mA 250V, (5 × 20mm), HBC, Fast Blow

General

Display:	2 lines × 16 characters LCD
Auto-null threshold:	5Ω
Buzzer threshold:	3Ω
Fast test:	10Sec
Long test:	60Sec
With PI and DAR test function:	10Min
Load battery test current:	About 300mA
Operating temperature:	0°C to 40°C not in full sun
Storage temperature:	-10°C to 50°C
Dimensions:	250(L) × 190(W) × 110(D)mm
Weight (battery included):	Approx 1460g.
Power source:	1.5V(AA) × 8
Safety standard:	EN 61010-1 CAT III 600V EN 61326-1

Insulation & Multifunction Testers (LCD)



CE

Features

- Microprocessor-controlled.
- Measures Insulation Resistance, voltage (AC-DC) measurements.
- Automatic hold facility.
- Continuity test with a short circuit current of minimum 200mA.
- Energy conservation is feature.
- EnerSave™ limits the test duration to about 10 Seconds to save energy.
- No moving parts. All calibration are saved internally in a non volatile memory.
- Easy calibration at any facility around the world.
- Low cost maintenance, calibration, and ownership.
- Complies to all the latest regulations, including UK.

Accessories

Instruction manual
 Test leads
 Shoulder belt
 Batteries

4102 MF Insulation & Multifunction Tester (LCD Display)

Specifications

Insulation Test

Test voltage (DC V)	250V	500V	1000V
Output voltage @ 1mA	Rated test Voltage +10% Max		
Measuring ranges	0.2M~2G	0.2M~4G	0.2M~8GΩ
Accuracy	0.2M~4GΩ : ±3%rdg 4GΩ~8GΩ : ±5%rdg		

When voltage is constant,

Current is limited at	1.2mA
Short circuit current	4mA Max.

Continuity Test

Measuring ranges	0.01-1999Ω
Accuracy	0.01-100Ω : ±1.0%rdg 100-300Ω : ±1.5%rdg 300-1999Ω : ±2.0%rdg
Short circuit current	>220mA
Open circuit voltage	5V dc
Resolution	±2 counts

Voltmeter

AC voltage (Auto)	0-700V
DC voltage (Auto)	0-950V
Accuracy	±1.5% rdg
Resolution	±1V

Protections

Over load	700V (between all terminals)
Over voltage	Class III-700V towards ground
Fuse	500mA 250V, (5 × 20mm), HBC, Fast Blow

MOV Test & GAS Arrester Test

Test voltage	5-1020Vdc
Voltage result accuracy	±3% rdg
Voltage result resolution	±2 counts

General

Display	2 lines × 16 characters LCD
Auto-null threshold	5Ω
Buzzer threshold	3Ω
Fast test	10Sec
Long test	60Sec
With PI and DAR test function	10Min
Load battery test current	About 300mA
Operating temperature	0°C to 40°C not in full sun
Storage temperature	-10°C to 50°C
Dimensions	250(L) × 190(W) × 110(D)mm
Weight (battery included)	Approx 1460g.
Power source	1.5V(AA) × 8

Insulation & Multifunction Testers (LCD)

4167 MF Insulation & Multifunction Tester (LCD Display)

Features

- High Quality Taut Band movement.
- Capable of measuring earth resistance and earth voltage.
- 2mA measuring current permits the testing of earth resistance without tripping earth leakage current breakers in the circuit under test.
- Test test leads are supplied as standard accessories for simplified two-wire measuring system.
- Two insulation test voltages(DC) : 250V and 500V.
- Alternation voltage measurement.
- Battery life indicator.
- Fuse protected.

Specifications

Earth Resistance

Measuring system	Earth resistance by constant current inverter 820Hz, 2mA approx.
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Measuring Ranges	Earth resistance: 0-12/0-120/0-1200Ω Earth voltage: 0-30V AC 40-500Hz
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Accuracy	Earth resistance: ±3% F.S. Earth voltage: ±2.5% F.S.
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Insulation

Test voltage(DC V)	250V	500V
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Measuring ranges	0-100MΩ	0-200MΩ
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Output voltage on open circuit	Rated test voltage +10%
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Short circuit terminal current	2mA DC
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Accuracy	± 5% of scale length
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ACV

AC voltage range	0-600V
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Accuracy	± 2.5% of full scale
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Line frequency range	40-500Hz
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General

Dimensions	250(L) × 190(W) × 110(D)mm
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Weight	Approx. 1500g (battery included)
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Power source	1.5V (AA) × 8
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Safety standard	EN 61010-1 CAT III 600V
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	EN 61326-1
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Accessories

Instruction manual

Test leads

Auxiliary earth spikes

Simplified measurement probe

Shoulder belt

Batteries



CE

AL-24-5



AL-36



AL-33



TEL-1505 S



BET-2800



Insulation & Multifunction Testers (LCD)



Features

- Microprocessor-controlled.
- Telecommunication test voltage : 50V and 100V.
- Large range of insulation test voltages: 50, 100, 125, 250, 500, 1000V.
- Mov / protection devices test.
- Gas Arrester function.
- Automatic voltmeter AC/DC at Start/Reset.
- Test ON-OFF.
- Battery test.
- Safety voltmeter before each test.
- Auto-discharge on all test and all ranges.
- Battery test at Switch ON-TEST.
- Smart hold & Stop on voltmeter AC/DC.
- Leads AUTO-NULL Key.
- Test Auto-stop.
- Auto range.
- Ener-Save™.

AL-24-5



AL-21C2-4



4175 TMF Insulation & Multifunction Tester (LCD Display)

Specifications

Insulation Test	
Test voltage (DC) and Measuring ranges	50V / 0.1MΩ~400MΩ 100V / 0.1MΩ~800MΩ 125V / 0.1MΩ~1GΩ 250V / 0.2M~2GΩ 500V / 0.2MΩ~4GΩ 1000V / 0.2M~8GΩ
Output voltage @ 1mA	Rated test Voltage +10% Max
Accuracy	0.1MΩ~4GΩ : ±3%rdg 4GΩ~8GΩ : ±5%rdg
Nominal voltage rated	1mA
Short circuit current	1.2mA
Polarization index(PI)	√
Dielectric absorption ratio (DAR)	√

Continuity Test	
Ranges	0.01~100Ω / 100 ~300Ω / 300~1999Ω
Accuracy	0.01~100Ω : ±1.0%rdg 100~300Ω : ±1.5%rdg 300~1999Ω : ±2.0%rdg
Auto-null	up to 5Ω
Buzzer	up to 3Ω

Voltmeter	
AC voltage (Auto)	0-700V
DC voltage (Auto)	0-950V
Accuracy	±1.5% rdg
Resolution	±1V

MOV Test & GAS Arrester Test	
Measuring range	5-1020Vdc
Accuracy	±(3%rdg + 2dgt)

General

Display:	LCD
Fuse:	500mA 250V (5 × 20mm) HBC. Fast Blow
Operating temperature:	0°C to 40°C not in full sun
Storage temperature:	-10°C to 50°C
Dimensions:	250(L) × 190(W) × 110(D)mm
Weight (battery included):	Approx 1460g.
Power source:	1.5V(AA) × 8 Alkaline batteries
Safety standard:	EN 61010-1 CAT III 600V EN 61326-1

Accessories

- Instruction manual
- Test leads
- Shoulder belt
- Batteries

Insulation & Multifunction Testers (LCD)

9000 MF Insulation & Multifunction Tester (LCD Display)

Features

- 9000 MF multi-function tester is a combination of insulation tester and earth resistance tester
- Insulation output voltage : 50V, 100V, 125V, 250V, 500V, 1000V
- 1mA test current on insulation test at nominal voltage
- Auto-detection AC/DC voltmeter
- Continuity short-circuit current > 200mA
- Continuity open circuit voltage > 4.1V
- PI and DAR indication
- Maximum insulation range 8GΩ (8000MΩ) at 1000V
- Auto ranging on all insulation ranges
- Continuity range : 2000Ω and 200.0Ω (auto ranging)
- Auto power off
- Test frequency of earth resistance measurement : 128 Hz
- Earth resistance measurement for 3 ranges : 40Ω / 400Ω / 4kΩ
- Earth resistance resolution : 0.01Ω / 0.1Ω / 1Ω
- Earth voltage measurement : 400V
- Auto-null (Relative mode) function
- Backlight function
- Low battery

Specifications

Earth Resistance

Measuring ranges	Earth resistance: 0~40Ω / 0~400Ω / 0~4kΩ
	Earth voltage: AC 0~400V (10~999Hz) DC 0~400V

Accuracy ± (2.0%+3dgt)

Insulation

Test voltage(DC V)	Ω	1000V/500V	250V/125V	100V/50V
Measuring ranges	2kΩ	8GΩ/4GΩ	2GΩ/1GΩ	800/400MΩ
Accuracy	± (2.0%	0-4GΩ: ±(3.0% + 3dgt)		
	+ 3dgt)	4-8GΩ: ±(5.0% + 3dgt)		

Output voltage on open circuit Rated test voltage +15%

Short circuit terminal current > 200mAdc > 1mAdc

AC voltage ranges 30~600V ± (2.0% + 3dgt)

Frequency ranges 10~999Hz ± (2.0% + 3dgt)

DC voltage ranges 30~600V ± (2.0% + 3dgt)

General

Protection fuse	500mA / 600V , 5x20mm x 2
Dimensions	322(L) × 260(W) × 135(D)mm
Weight	Approx. 3300g (battery included)
Power source	1.5V "C" battery × 8
Safety standard	EN 61010-1 EN 61326-1 EN 61557-1 EN 61557-2 EN 61557-5
	For installation tester: CAT III 600V
	For earth resistance tester: CAT IV 400V



TEL-AL28-5



AL-33



TEL-1505 S



AL-36



BET-9000 A



CAC-9000 SEW

Accessories

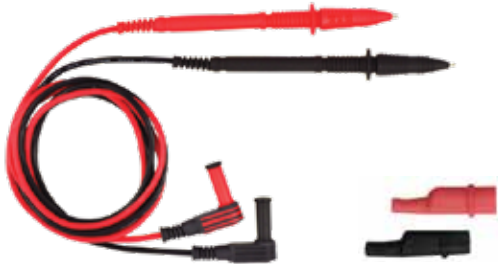
Instruction manual
 Test leads for earth resistance:
 Red-15m, yellow-10m, green-5m,
 Test leads for insulation:
 red-90cm, black-90cm
 Simplified measurement probe
 Auxiliary earth spikes
 Shoulder belt
 Soft pouch
 Batteries

Insulation & Multifunction Testers (OLED)

1151 IN-M Insulation & Multifunction Tester (OLED Display) Electrical / Installations



CE



AL-24-5

AL-21C2-4



CAC-1151



BET-1800

Accessories

Instruction manual
Test leads
Shoulder belt
Soft pouch
Batteries

Features

- High Contrast OLED display.
- Designed for viewing in the dark, for mining industry.
- Auto-range microprocessor-controlled.
- Automatic voltmeter AC/DC at Start/Reset.
- Battery test at switch ON/Reset.
- Safety voltmeter before each test.
- Auto-discharge on all tests and all ranges.
- Leads auto-null key.
- Test auto-stop.
- Smart hold and stop on voltmeter AC/DC.
- Ener-Save.
- Continuity short circuit >220mA.
- Continuity open circuit voltage of 5Vdc.
- Nominal voltage @ 1mA on all insulation ranges.
- Polarization index (PI).
- Dielectric Absorption Ratio (DAR).
- BS 16 edition.

Specifications

Insulation	
Test voltage /	1000V / 0.2MΩ ~ 8GΩ
Insulation Resistance:	500V / 0.2MΩ ~ 4GΩ
	250V / 0.2MΩ ~ 2GΩ
Accuracy	0.1MΩ~4GΩ : ±3%rdg
	4GΩ~8GΩ : ±5%rdg
PI Function	√
DAR Function	√
Continuity Short Circuit Current > 220mA	
Range / Accuracy	0.01 ~ 100Ω / ±1%rdg
	100 ~ 300Ω / ±1.5%rdg
	300~1999Ω / ±2%rdg
Auto-Null	Up to 5Ω
Buzzer Threshold Value	Up to 3Ω
Voltmeter (Autoranging)	
Range / Accuracy / Resolution	0 ~ 700Vac / ±1.5% F.S. / ±1V
	0 ~ 950Vac / ±1.5% F.S. / ±1V
Auto-Hold	√

General

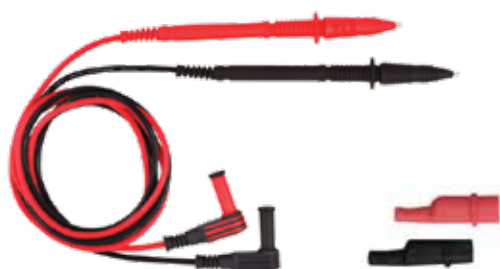
Battery load current :	About 300mA
OLED type:	Large Type 2 × 16 Characters
Auto-off:	Approx. 5 minutes
Fuse:	Fast HBC 500mA 600V (5 × 20mm)
Operating temperature:	0°C to 40°C not in full sun
Storage temperature:	-10°C to 50°C
Dimensions:	175(L) × 85(W) × 75(D)mm
Weight (battery included):	Approx. 655g
Power source:	Alkaline 1.5V (AA) × 8
Auto discharge:	On all test and all ranges
Safety standard:	IEC / EN 61010-1 CAT III 600V, EN 61326-1

Insulation & Multifunction Testers (OLED)

1152 MF-M Insulation & Multifunction Tester (OLED Display) Electrical / Installations / Maintenance / Analysis



CE



AL-24-5

AL-21C2-4



CAC-1151



BET-1800

Accessories

Instruction manual
Test leads
Shoulder belt
Soft pouch
Batteries

Features

- High Contrast OLED display.
- Designed for viewing in the dark, for mining industry.
- Auto-range microprocessor-controlled.
- Automatic voltmeter AC/DC at Start/Reset.
- Battery test at switch ON/Reset.
- Safety voltmeter before each test.
- Auto-discharge on all tests and all ranges.
- Leads auto-null key.
- Test auto-stop.
- Smart hold and stop on voltmeter AC/DC.
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- Continuity open circuit voltage of 5Vdc.
- Nominal voltage @ 1mA on all insulation ranges.
- Polarization index (PI).
- Dielectric Absorption Ratio (DAR).
- BS 16 edition.

Specifications

Insulation

Test voltage /	1000V / 0.2MΩ ~ 8GΩ
Insulation Resistance:	500V / 0.2MΩ ~ 4GΩ 250V / 0.2MΩ ~ 2GΩ

Accuracy	0.1MΩ~4GΩ : ±3%rdg 4GΩ~8GΩ : ±5%rdg
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PI Function	✓
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DAR Function	✓
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Continuity Short Circuit Current > 220mA

Range / Accuracy	0.01 ~ 100Ω / ±1%rdg 100 ~ 300Ω / ±1.5%rdg 300~1999Ω / ±2%rdg
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Auto-Null	Up to 5Ω
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Buzzer Threshold Value	Up to 3Ω
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Voltmeter (Autoranging)

Range / Accuracy / Resolution	0 ~ 700Vac / ±1.5% F.S. / ±1V 0 ~ 950Vac / ±1.5% F.S. / ±1V
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Auto-Hold	✓
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Metal Oxide Varistor & Gas Arrester Voltage Result @ 1mA

Test Voltage Accuracy	5~1020V ±3%rdg ±2dgt
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General

Battery load current	About 300mA
OLED type	Large Type 2 × 16 Characters
Auto-off	Approx. 5 minutes
Fuse	Fast HBC 500mA 600V (5 × 20mm)
Operating temperature	0°C to 40°C not in full sun
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Dimensions	175(L) × 85(W) × 75(D)mm
Weight (battery included)	Approx. 655g
Power source	Alkaline 1.5V (AA) × 8
Auto discharge	On all test and all ranges
Safety standard	IEC / EN 61010-1 CAT III 600V, EN 61326-1

Insulation & Multifunction Testers (OLED)

1154 TMF-M Insulation & Multifunction Tester (OLED Display) Electrical / Installations / Telecoms / Maintenance



CE



AL-24-5

AL-21C2-4



CAC-1151



BET-1800

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- Auto-discharge on all tests and all ranges.
- Leads auto-null key.
- Test auto-stop.
- Smart hold and stop on voltmeter AC/DC.
- Ener-Save.
- Continuity short circuit >220mA.
- Continuity open circuit voltage of 5Vdc.
- Nominal voltage @ 1mA on all insulation ranges.
- BS 16 edition.

Specifications

Insulation	
Test voltage / Insulation Resistance:	1000V / 0.2MΩ ~ 8GΩ 500V / 0.2MΩ ~ 4GΩ 250V / 0.2MΩ ~ 2GΩ 125V / 0.1MΩ ~ 1GΩ 100V / 0.1MΩ ~ 800MΩ 50V / 0.1MΩ ~ 400MΩ
Accuracy	0.1MΩ~4GΩ : ±3%rdg 4GΩ~8GΩ : ±5%rdg
Continuity Short Circuit Current > 220mA	
Range / Accuracy	0.01 ~ 100Ω / ±1%rdg 100 ~ 300Ω / ±1.5%rdg 300~1999Ω / ±2%rdg
Auto-Null	Up to 5Ω
Buzzer Threshold Value	Up to 3Ω
Voltmeter (Autoranging)	
Range / Accuracy / Resolution	0 ~ 700Vac / ±1.5% F.S. / ±1V 0 ~ 950Vac / ±1.5% F.S. / ±1V
Auto-Hold	√
Metal Oxide Varistor & Gas Arrester Voltage Result @ 1mA	
Test Voltage Accuracy	5~1020V ±3%rdg ±2dgt

General

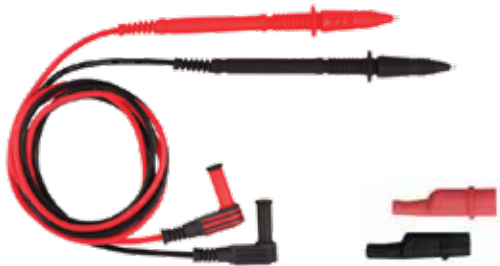
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Insulation & Multifunction Testers (OLED)

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	125V / 0.1MΩ ~ 1GΩ
	100V / 0.1MΩ ~ 800MΩ
	50V / 0.1MΩ ~ 400MΩ
Accuracy	0.1MΩ~4GΩ : ±3%rdg 4GΩ~8GΩ : ±5%rdg
PI Function	√
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Auto-Hold	√
Metal Oxide Varistor & Gas Arrester Voltage Result @ 1mA	
Test Voltage Accuracy	5~1020V ±3%rdg ±2dgt

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