



## Hoyt Insulation Testers

### Part 1 - Analog Insulation Testers

#### Analog (1kV up) H.V. Insulation Testers

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## 6200 IN Analog (Up to 5kV) Insulation Tester



CE

### Features

- Microprocessor-controlled.
- High quality Taut Band movement.
- Two insulation test voltages.
- Insulation resistance, auto ranging on all ranges.
- Low Battery LED indication.
- Beeper warning of external voltage.
- Fully protected : crow bar.
- Housed in carry case.

### Specifications

Insulation Resistance

Test voltage (DC V)	2500V	5000V
Measuring ranges	0-100GΩ	0-200GΩ
Accuracy	±5% of full scale	
Live warning	>500V AC	

### General

Operating temperature & humidity 0°C ~ 40°C, up to 85% R.H.  
 Dimensions 330(L) × 260(W) × 160(D) mm  
 Weight Approx. 3500g (battery included)  
 Power source 1.5V "C" × 8 Alkaline batteries

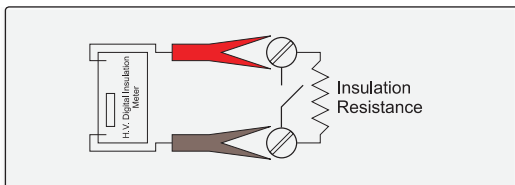
### Accessories

Instruction manual  
 Test leads  
 Batteries

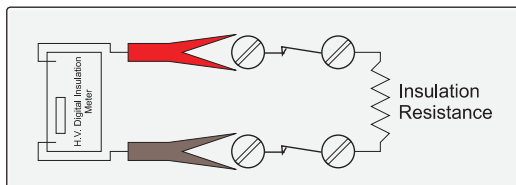


AL-50 AL-30B AL-30AG AL-23CA B  
AL-23CA R

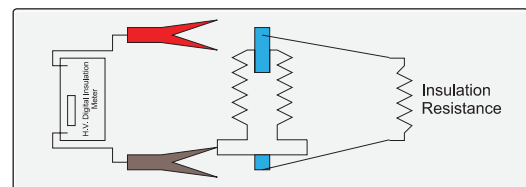
Measuring Insulation of Open Contacts of Circuit Breaker



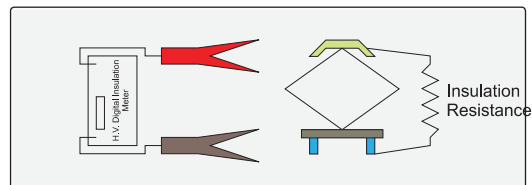
Measuring Insulation between contacts of Circuit Breaker



Insulator



Insulator or Railway Coach



## 6201 IN Analog (Up to 10kV) Insulation Tester



CE

### Features

- Microprocessor-controlled.
- High quality Taut Band movement.
- Two insulation test voltages.
- Insulation resistance, auto ranging on all ranges.
- Low Battery LED indication.
- Beeper warning of external voltage.
- Fully protected : crow bar.
- Housed in carry case.

### Specifications

Insulation Resistance

Test voltage (DC V)	5000V	10000V
Measuring ranges	0-200GΩ	0-400GΩ
Accuracy	±5% of full scale	
Live warning	>500V AC	

### General

Operating temperature & humidity	0°C ~ 40°C, up to 85% R.H.
Dimensions	330(L) × 260(W) × 160(D) mm
Weight	Approx. 3500g (battery included)
Power source	1.5V "C" × 8 Alkaline batteries

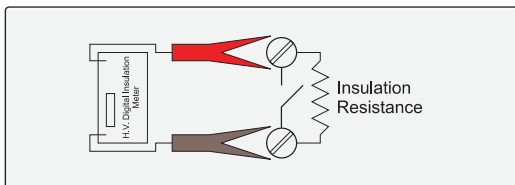


AL-50 AL-30B AL-30AG AL-23CA B  
AL-23CA R

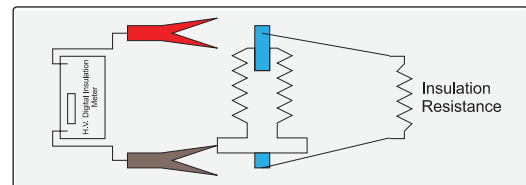
### Accessories

Instruction manual  
Test leads  
Batteries

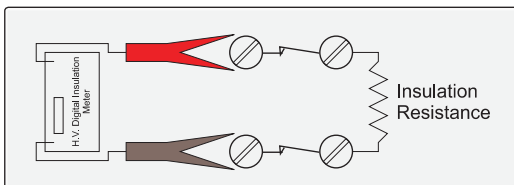
Measuring Insulation of Open Contacts of Circuit Breaker



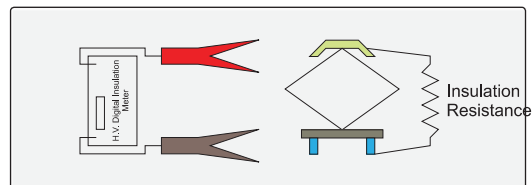
Insulator



Measuring Insulation between contacts of Circuit Breaker



Insulator or Railway Coach



# Analog (1kV below) Insulation Testers

## 1125 IN (Up to 500V) Analog Insulation Tester



### Features

- High quality Taut Band movement.
- Measures insulation( $M\Omega$ ) and AC voltage.
- LED indication for testing insulation.
- Highly efficiency and accurate DC-DC converter.
- Battery check function.
- Compact and lightweight.
- AC voltage measurement can be made without depressing the test button.

### Specifications

#### Insulation Resistance

Test voltage (DC V)	500V
Output voltage on open circuit	Rated test voltage +10%
Measuring ranges	0-1000M $\Omega$
Mid-scale value	20M $\Omega$
Accuracy	1-500M $\Omega$ : $\pm$ 5% rdg 0.7% of scale length at other ranges
Short circuit current	1mA

#### AC Voltage

Range	0-600V AC
Accuracy	$\pm$ 2.5% of full scale



AL-28-5



AL-25C

### General

Operating temperature & humidity	0°C ~ 40°C, up to 85% R.H.
Storage temperature & humidity	-10°C ~ 50°C, up to 85% R.H.
Dimensions	175(L) $\times$ 85(W) $\times$ 75(D)mm
Weight	Approx. 560g (battery included)
Power source	1.5V (AA) $\times$ 8
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1

### Accessories

- Instruction manual
- Test leads
- Shoulder belt
- Batteries
- Soft pouch (Optional)

# Analog (1kV below) Insulation Testers

## 1126 IN (Up to 1kV) Analog Insulation Tester



### Features

- High quality Taut Band movement.
- Measures insulation(MΩ) and AC voltage.
- LED indication for testing insulation.
- Highly efficiency and accurate DC-DC converter.
- Battery check function.
- Compact and lightweight.
- AC voltage measurement can be made without depressing the test button.

### Specifications

#### Insulation Resistance

Test voltage (DC V)	1000V
Output voltage on open circuit	Rated test voltage +10%
Measuring ranges	0-2000MΩ
Mid-scale value	50MΩ
Accuracy	2-1000MΩ : ± 5% rdg 0.7% of scale length at other ranges
Short circuit current	1mA

#### AC Voltage

Range	0-600V AC
Accuracy	± 2.5% of full scale



AL-28-5



AL-25C

### General

Operating temperature & humidity	0°C ~ 40°C, up to 85% R.H.
Storage temperature & humidity	-10°C ~ 50°C, up to 85% R.H.
Dimensions	175(L) × 85(W) × 75(D)mm
Weight	Approx. 560g (battery included)
Power source	1.5V (AA) × 8
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1

### Accessories

- Instruction manual
- Test leads
- Shoulder belt
- Batteries
- Soft pouch (Optional)



## 1131 IN (1kV below) Analog Insulation Tester



CE

### Features

- High quality Taut Band movement.
- Three insulation test voltages (DC) : 250V, 500V, 1000V.
- Two ranges for continuity test : 2Ω & 20Ω.
- Compact and lightweight.
- AC voltmeter with linear scale up to 600Vac.
- 200mA continuity short-circuit current.
- 1mA test current on insulation test at nominal voltage.
- Automatic discharge of capacitive and inductive circuit with charge stored in the circuit under test.
- Live warning and display of external voltage presence.
- Fuse, air gap, crowbar and overload protected.
- On line battery monitoring shows if battery is ok.
- Manual zero ohm adjustment.
- Low battery consumption.
- Mirror scale.
- Push and turn locking switch for continuous and hand free testing.
- BS 16 edition.

### Specifications

#### Insulation Resistance

Test voltage (DC V)	250V	500V	1000V
Output voltage on open circuit	Rated test voltage +10%		
Measuring ranges	0-100MΩ	0-200MΩ	0-400MΩ
Mid-scale value	1MΩ	2MΩ	4MΩ
Scale multiplier	×1/2	×1	×2
Accuracy	± 5% of indicated value		
Output short- circuit current	≥ 1.0mA		

#### Continuity

Measuring range	2Ω / 20Ω
zero Ω adjustment by knob	√
Output short- circuit current	≥ 200 mA
Accuracy	± 1.5% of scale length

#### AC Voltage

Range	0-600V AC
Accuracy	± 3% of scale length

#### General

Voltage warning	Warning light circuit live lit from 90Vdc / 70Vac, Buzzer beep from 24V ac/dc
Battery check	Battery check indicate good batteries from 8.5Vdc to 13Vdc during a load test of 205mA. Battery OK LED lit from 8.5Vdc and is operative while testing.
Dimensions	175(L) × 85(W) × 75(D)mm
Weight	Approx. 650g (battery included)
Power source	1.5V (AA) × 8
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1



AL-24-5



AL-21C2-4



CAC-1132



BET-1800

### Accessories

- Instruction manual
- Test leads
- Shoulder belt
- Batteries
- Soft pouch (Optional)

# Analog (1kV below) Insulation Testers

## 1132 IN (1kV below) Analog Insulation Tester

### Features

- High quality Taut Band movement.
- Three insulation test voltages(DC) : 250V, 500V, 1000V.
- Two continuity test on low ohms : 3Ω & 500Ω.
- Compact and lightweight.
- AC voltmeter with linear scale up to 600 Vac.
- 200mA continuity short circuit current.
- 1mA test current on insulation test at nominal voltage.
- Automatic discharge of capacitive and inductive circuit with charge stored in the circuit under test.
- Live warning and display or external voltage presence.
- Fuse, air gap, crowbar and overload protected.
- On line battery monitoring shows if battery is ok.
- Manual zero ohm adjustment.
- Low battery consumption.
- Mirror scale.
- Push and turn locking switch for continuous and hand free testing.
- BS 16 edition.

### Specifications

#### Insulation Resistance

Test voltage (DC V)	250V	500V	1000V
Output voltage on open circuit	Rated test voltage +10%		
Measuring ranges	0-100MΩ	0-200MΩ	0-400MΩ
Mid-scale value	1MΩ	2MΩ	4MΩ
Scale multiplier	×1/2	×1	×2
Accuracy	± 5% of indicated value		
Output short- circuit current	≥ 1.0mA		

#### Continuity

Measuring range	3Ω / 500Ω
Output short- circuit current	≥ 200 mA
Accuracy	± 1.5% of scale length

#### AC Voltage

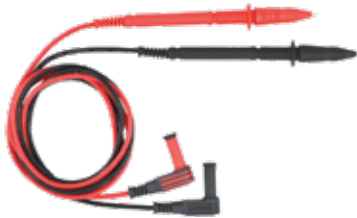
Range	0-600V AC
Accuracy	± 3% of scale length

#### General

Voltage warning	Warning light circuit live lit from 90Vdc / 70Vac, Buzzer beep from 24V ac/dc
Battery check	Battery check indicate good batteries from 8Vdc to 13Vdc during a load test of 205mA. Battery OK LED lit from 6.5Vdc and is operative while testing.
Dimensions	175(L) × 85(W) × 75(D)mm
Weight	Approx. 650g (battery included)
Power source	1.5V (AA) × 8
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1



CE



AL-24-5



AL-21C2-4



CAC-1132



BET-1800

### Accessories

Instruction manual  
 Test leads  
 Shoulder belt  
 Batteries  
 Soft pouch

# Analog (1kV below) Insulation Testers

## 1180 IN (1kV below) Analog Insulation Tester



CE

### Features

- High quality Taut Band movement.
- Battery operated.
- Solid state circuitry.
- Battery check feature.
- Automatic circuit discharge.
- Three insulation test voltages(DC) : 250V, 500V, 1000V
- Continuity test : 50  $\Omega$
- AC voltage measurement : 500V
- Color-coded scale.
- Fuse protected.

### Specifications

#### Insulation Resistance

Test voltage (DC V)	250V	500V	1000V
Output voltage on open circuit	Rated test voltage +10%		
Measuring ranges	0-100M $\Omega$	0-200M $\Omega$	0-400M $\Omega$
Accuracy	$\pm$ 5% of indicated value		
Short circuit current	2mA DC		
Power consumption	190mA		

#### Continuity

Measuring range	3 $\Omega$ / 500 $\Omega$ & $\infty$
Accuracy	$\pm$ 5% of scale length
Open circuit voltage	4V DC Approx.
Short circuit current	145mA DC Approx.
Power consumption	200mA

#### AC Voltage

Range	0-500V AC
Accuracy	$\pm$ 2.5% of full scale
Line frequency range	40 -1k Hz

### General

Dimensions	175(L) $\times$ 85(W) $\times$ 75(D)mm
Weight	Approx. 600g (battery included)
Power source	1.5V (AA) $\times$ 8
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1

### Accessories

Instruction manual  
Test leads  
Shoulder belt  
Batteries



## 1652 IN (1kV below) Analog Insulation Tester

### Features

- High quality Taut Band movement.
- Three insulation test voltages(DC): 250V, 500V, 1000V.
- Two continuity test on “low ohms”: 3Ω & 500Ω.
- AC voltmeter with linear scale up to 600 Vac.
- 200mA short circuit current for continuity.
- 1mA test current on insulation test at nominal voltage.
- Automatic discharge of capacitive and inductive circuit with charge stored in the circuit under test.
- Live warning and display of external voltage presence.
- Fuse, air gap, crowbar and overload protected.
- On line battery monitoring shows if battery is ok.
- Manual zero ohm adjustment.
- Low battery consumption.
- Mirror scale.
- Push and turn locking switch for continuous and hand free testing.
- Supplied with high quality test leads.
- BS 16 edition.



CE

### Specifications

Insulation Resistance			
Test voltage (DC V)	250V	500V	1000V
Output voltage on open circuit	Rated test voltage +10%		
Measuring ranges	0-100MΩ	0-200MΩ	0-400MΩ
Mid-scale value	1MΩ	2MΩ	4MΩ
Scale multiplier	×1/2	×1	×2
Accuracy	± 5% of full scale		
Output short- circuit current	Approx. 1.3mA		

Continuity	
Measuring range	3Ω / 500Ω
Zero Ω adjustment by knob	√
Output short- circuit current	≥ 200 mA
Accuracy	± 1.5% of scale length

AC Voltage	
Range	0-600V AC
Accuracy	± 3% of scale length

### General

Voltage warning	Warning light circuit live lit from 90Vdc / 70Vac, Buzzer beep from 24V ac/dc
Dimensions	163(L) × 122(W) × 62(D)mm
Weight	Approx. 553g (battery included)
Power source	1.5V (AA) × 6
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1

### Accessories

Instruction manual  
Test leads  
Shoulder belt  
Batteries



## 1800 IN (1kV below) Analog Insulation Tester

### Features

- High quality Taut Band movement.
- Battery operated.
- Solid state circuitry.
- Battery check feature.
- Automatic circuit discharge.
- Three insulation test voltages.
- Color-coded scale.
- AC voltage measurement.
- Fuse protected.

### Specifications

Insulation Resistance	
Test voltage (DC V)	250V    500V    1000V
Output voltage on open circuit	Rated test voltage +10%
Measuring ranges	0-100MΩ    0-200MΩ    0-400MΩ
Mid-scale value	1MΩ    2MΩ    4MΩ
Accuracy	0-1MΩ: ±10% of indicated value 1MΩ-400MΩ: ±5% of indicated value
Short circuit terminal current	2mA DC
Power consumption	190mA
Continuity	
Measuring range	0-50Ω & ∞
Accuracy	± 5% of scale length
Open circuit terminal voltage	4V DC Approx.
Short circuit terminal current	145mA DC Approx.
Power consumption	200mA
AC Voltage	
Range	0-600V AC
Accuracy	± 2.5% of full scale
Line frequency range	40-1k Hz

### General

Dimensions	170(L) × 165(W) × 92(D) mm (with housing front cover)
Weight	Approx. 1000g (battery included)
Power source	1.5V (AA) × 8
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1

### Accessories

Instruction manual  
Test leads  
Shoulder belt  
Batteries

# Analog (1kV below) Insulation Testers

## 1832 IN (1kV below) Analog Insulation Tester

### Features

- High quality Taut Band movement.
- Three insulation test voltages(DC) : 250V, 500V, 1000V.
- Two continuity test on low ohms : 3Ω & 500Ω.
- Compact and lightweight.
- 200mA continuity short circuit current.
- 1mA test current on insulation test at nominal voltage.
- Automatic discharge of capacitive and inductive circuit with charge stored in the circuit under test.
- Live warning and display or external voltage presence.
- Fuse, air gap, crowbar and overload protected.
- On line battery monitoring shows if battery is ok.
- Manual zero ohm adjustment.
- Low battery consumption.
- Mirror scale.
- Push and turn locking switch for continuous and hand free testing.
- BS 16 edition.

### Specifications

#### Insulation Resistance

Test voltage (DC V)	250V	500V	1000V
Output voltage on open circuit	Rated test voltage +10%		
Measuring ranges	0-100MΩ	0-200MΩ	0-400MΩ
Mid-scale value	1MΩ	2MΩ	4MΩ
Scale multiplier	×1/2	×1	×2
Accuracy	± 3% of indicated value		
Output short- circuit current	≥ 1.0mA		

#### Continuity

Measuring range	3Ω / 500Ω
Output short- circuit current	≥ 200 mA
Accuracy	± 1.5% of scale length

#### AC Voltage

Range	0-600V AC
Accuracy	± 3% of scale length

### General

Voltage warning	Warning light circuit live lit from 90Vdc / 70Vac, Buzzer beep from 24V ac/dc
Battery check	Battery check indicate good batteries from 8Vdc to 13Vdc during a load test of 205mA. Battery OK LED lit from 8Vdc and is operative while testing.
Dimensions	170(L) × 165(W) × 92(D)mm
Weight	Approx. 1030g (battery included)
Power source	1.5V (AA) × 8
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1



### Accessories

Instruction manual  
Test leads  
Shoulder belt  
Batteries

## 2132 IN (1kV below) Analog Insulation Tester

CE



### Features

- High quality Taut Band movement.
- Three insulation test voltages(DC) : 250V, 500V, 1000V.
- Two continuity test on low ohms : 3Ω & 500Ω.
- Compact and lightweight.
- 200mA continuity short circuit current.
- 1mA test current on insulation test at nominal voltage.
- Automatic discharge of capacitive and inductive circuit with charge stored in the circuit under test.
- Live warning and display or external voltage presence.
- Fuse, air gap, crowbar and overload protected.
- On line battery monitoring shows if battery is ok.
- Manual zero ohm adjustment.
- Low battery consumption.
- Mirror scale.
- Push and turn locking switch for continuous and hand free testing.
- BS 16 edition.

### Specifications

#### Insulation Resistance

Test voltage (DC V)	250V	500V	1000V
Output voltage on open circuit	Rated test voltage +10%		
Measuring ranges	0-100MΩ	0-200MΩ	0-400MΩ
Mid-scale value	1MΩ	2MΩ	4MΩ
Scale multiplier	×1/2	×1	×2
Accuracy	± 5% of indicated value		
Output short- circuit current	≥ 1.0mA		

#### Continuity

Measuring range	3Ω / 500Ω
Output short- circuit current	≥ 200 mA
Accuracy	± 1.5% of scale length

#### AC Voltage

Range	0-600V AC
Accuracy	± 3% of scale length

#### General

Voltage warning	Warning light circuit live lit from 90Vdc / 70Vac, Buzzer beep from 24V ac/dc
Battery check	Battery check indicate good batteries from 8Vdc to 13Vdc during a load test of 205mA. Battery OK LED lit from 8Vdc and is operative while testing.
Dimensions	210(L) × 210(W) × 100(D)mm
Weight	Approx. 1400g (battery included)
Power source	1.5V (AA) × 8
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1

### Accessories

Instruction manual  
Test leads  
Shoulder belt  
Batteries

# Analog (1kV below) Insulation Testers

## 2732 IN (1kV below) Analog Insulation Tester

### Features

- High quality Taut Band movement.
- Three insulation test voltages(DC) : 250V, 500V, 1000V.
- Two continuity test on "low ohms" : 3Ω & 500Ω.
- Compact and lightweight.
- AC voltmeter with linear scale up to 600 Vac.
- 200mA continuity short circuit current.
- 1mA test current on insulation test at nominal voltage.
- Automatic discharge of capacitive and inductive circuit with charge stored in the circuit under test.
- Live warning and display or external voltage presence.
- Fuse, air gap, crowbar and overload protected.
- On line battery monitoring shows if battery is ok.
- Manual zero ohm adjustment.
- Low battery consumption.
- Mirror scale.
- Push and turn locking switch for continuous and hand free testing.
- Designed for meet international standards.
- Supplied with high quality test leads.
- BS 16 edition.

### Specifications

#### Insulation Resistance

Test voltage (DC V)	250V	500V	1000V
Output voltage on open circuit	Rated test voltage +10%		
Measuring ranges	0-100MΩ	0-200MΩ	0-400MΩ
Mid-scale value	1MΩ	2MΩ	4MΩ
Scale multiplier	×1/2	×1	×2
Accuracy	± 5% of indicated value		
Output short- circuit current	≥ 1.0mA		

#### Continuity

Measuring range	3Ω / 500Ω
zero Ω adjustment by knob	√
Output short- circuit current	≥ 200 mA
Accuracy	± 1.5% of scale length

#### AC Voltage

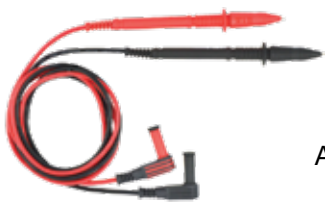
Range	0-600V AC
Accuracy	± 3% of scale length

### General

Voltage warning	Warning light circuit live lit from 90Vdc / 70Vac, Buzzer beep from 24V ac/dc
Battery check	Battery check indicate good batteries from 8Vdc to 13Vdc during a load test of 205mA. Battery OK LED lit from 8Vdc and is operative while testing.
Dimensions	205(L) × 90(W) × 55(D)mm
Weight	Approx. 550g (battery included)
Power source	1.5V (AA) × 6
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1



CE



AL-24-5



AL-21C2-4



TOC-2751

### Accessories

- Instruction manual
- Test leads
- Carry case
- Batteries



# Analog (1kV below) Insulation Testers

## 4132 IN (1kV below) Analog Insulation Tester

### Features

- High quality Taut Band movement.
- Three insulation test voltages(DC) : 250V, 500V, 1000V.
- Two continuity test on "low ohms" : 3Ω & 500Ω.
- Compact and lightweight.
- AC voltmeter with linear scale up to 600 Vac.
- 200mA continuity short circuit current.
- 1mA test current on insulation test at nominal voltage.
- Automatic discharge of capacitive and inductive circuit with charge stored in the circuit under test.
- Live warning and display or external voltage presence.
- Fuse, air gap, crowbar and overload protected.
- On line battery monitoring shows if battery is ok.
- Manual zero ohm adjustment.
- Low battery consumption.
- Mirror scale.
- Push and turn locking switch for continuous and hand free testing.
- Designed for meet international standards.
- Supplied with high quality test leads.
- BS 16 edition.

### Specifications

#### Insulation Resistance

Test voltage (DC V)	250V	500V	1000V
Output voltage on open circuit	Rated test voltage +10%		
Measuring ranges	0-100MΩ	0-200MΩ	0-400MΩ
Mid-scale value	1MΩ	2MΩ	4MΩ
Scale multiplier	×1/2	×1	×2
Accuracy	± 5% of indicated value		
Output short- circuit current	≥ 1.0mA		

#### Continuity

Measuring range	3Ω / 500Ω
zero Ω adjustment by knob	√
Output short- circuit current	≥ 200 mA
Accuracy	± 1.5% of scale length

#### AC Voltage

Range	0-600V AC
Accuracy	± 3% of scale length

### General

Voltage warning	Warning light circuit live lit from 90Vdc / 70Vac, Buzzer beep from 24V ac/dc
Battery check	Battery check indicate good batteries from 8Vdc to 13Vdc during a load test of 205mA. Battery OK LED lit from 6.5Vdc and is operative while testing.
Dimensions	250(L) × 190(W) × 110(D)mm
Weight	Approx. 1400g (battery included)
Power source	1.5V (AA) × 8
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1

CE



### Accessories

Instruction manual  
Test leads  
Shoulder belt  
Batteries

# Analog (1kV below) Insulation Testers

## 8031 IN (1kV below) Analog Insulation Tester

### Features

- High quality Taut Band movement.
- Three insulation test voltages(DC) : 250V, 500V, 1000V.
- Two continuity test on “low ohms” : 2Ω & 20Ω.
- AC voltmeter with linear scale up to 600 Vac.
- 200mA short circuit current for continuity.
- 1mA test current on insulation test at nominal voltage.
- Automatic discharge of capacitive and inductive circuit with charge stored in the circuit under test.
- Live warning and display of external voltage presence.
- Fuse, air gap, crowbar and overload protected.
- On line battery monitoring shows if battery is ok.
- Manual zero ohm adjustment.
- Low battery consumption.
- Mirror scale.
- Push and turn locking switch for continuous and hand free testing.
- Supplied with high quality test leads.
- BS 16 edition.

### Specifications

#### Insulation Resistance

Test voltage (DC V)	250V	500V	1000V
Output voltage on open circuit	Rated test voltage +10%		
Measuring ranges	0-100MΩ	0-200MΩ	0-400MΩ
Mid-scale value	1MΩ	2MΩ	4MΩ
Scale multiplier	×1/2	×1	×2
Accuracy	± 5% of indicated value		
Output short- circuit current	≥ 1.0mA		

#### Continuity

Measuring range	2Ω / 20Ω
zero Ω adjustment by knob	√
Output short- circuit current	≥ 200 mA
Accuracy	± 1.5% of scale length

#### AC Voltage

Range	0-600V AC
Accuracy	± 3% of scale length

#### General

Voltage warning	Warning light circuit live lit From 90Vdc / 70Vac, Buzzer beep from 24V ac/dc
Dimensions	221(L) × 110(W) × 56.8(D)mm
Weight (battery included)	Approx. 600g
Power source	1.5V (AA) × 6
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1



CE



Hand strap

### Accessories

Instruction manual  
Test leads  
Carry case  
Hand strap  
Batteries

## 8052 IN (1kV below) Analog Insulation Tester

### Features

- High quality Taut Band movement.
- Three insulation test voltages(DC) : 250V, 500V, 1000V.
- Two continuity test on “low ohms” : 3Ω & 500Ω.
- AC voltmeter with linear scale up to 600 Vac.
- 200mA short circuit current for continuity.
- 1mA test current on insulation test at nominal voltage.
- Automatic discharge of capacitive and inductive circuit with charge stored in the circuit under test.
- Live warning and display of external voltage presence.
- Fuse, air gap, crowbar and overload protected.
- On line battery monitoring shows if battery is ok.
- Manual zero ohm adjustment.
- Low battery consumption.
- Mirror scale.
- Push and turn locking switch for continuous and hand free testing.
- Supplied with high quality test leads.
- BS 16 edition.

### Specifications

#### Insulation Resistance

Test voltage (DC V)	250V	500V	1000V
Output voltage on open circuit	Rated test voltage +10%		
Measuring ranges	0-100MΩ	0-200MΩ	0-400MΩ
Mid-scale value	1MΩ	2MΩ	4MΩ
Scale multiplier	×1/2	×1	×2
Accuracy	± 5% of indicated value		
Output short- circuit current	≥ 1.0mA		

#### Continuity

Measuring range	3Ω / 500Ω
zero Ω adjustment by knob	√
Output short- circuit current	≥ 200 mA
Accuracy	± 1.5% of scale length

#### AC Voltage

Range	0-600V AC
Accuracy	± 3% of scale length

#### General

Voltage warning	Warning light circuit live lit From 90Vdc / 70Vac, Buzzer beep from 24V ac/dc
Dimensions	221(L) × 110(W) × 56.8(D)mm
Weight (battery included)	Approx. 600g
Power source	1.5V (AA) × 6
Safety standard	EN 61010-1 CAT III 600V, EN 61326-1



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Hand strap

### Accessories

Instruction manual  
Test leads  
Carry case  
Hand strap  
Batteries

# Analog (1kV below) Insulation Testers

## ST-1503 and ST-1504 (1kV below) Analog Insulation Testers

ST-1503



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ST-1504



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AL-24-5



AL-21C2-4



TOC-2751

### Features

- High quality Taut Band movement.
- Measures insulation(MΩ), continuity(Ω) and AC voltage.
- Instant operation is possible with a push button, convenient timer is provided with automatic power off after three to five minutes to save the battery power.
- LED (red) indication when testing insulation and continuity.
- Use of a high efficiency and accurate DC-DC converter.
- Most suitable for insulation resistance measurement of electrical household appliances, power line distribution and installation.

### Specifications

Insulation Resistance	ST-1503		ST-1504		
	500V	1000V	250V	500V	1000V
Test voltage (DC V)	500V	1000V	250V	500V	1000V
Output voltage on open circuit	Rated test voltage +10%		Rated test voltage +10%		
Measuring ranges	0-1000MΩ	0-2000MΩ	0-100MΩ	0-200MΩ	0-400MΩ
Mid-scale value	(20MΩ)	(40MΩ)	(1MΩ)	(2MΩ)	(4MΩ)
Accuracy	± 5% rdg		± 5% rdg		
Short circuit current	1mA		2mA		
Maximum battery current (approx.)	80mA (500V)	150mA (1000V)	60mA (250V)	80mA (500V)	150mA (1000V)

### Continuity

Measuring range	0-100Ω
Line frequency range	40-70Hz
Open circuit voltage	100mV
Short circuit current	23.5mA
Accuracy	± 5% of scale length

### AC Voltage

Range	0-600V AC
Accuracy	± 2.5% of full scale

### General

Dimensions	163(L) × 100(W) × 50(D)mm
Power source	1.5V (AA) × 6
Weight (battery included)	ST-1503 - Approx. 440g ST-1504 - Approx. 470g
Safety standard	EN 61010-1 CAT II 600V

### Accessories

- Instruction manual
- Test leads
- Carry case
- Batteries

## 1100 IN Insulation Tester for Telecoms



### Features

- High quality Taut Band movement.
- Measures insulation(MΩ) and AC voltage.
- LED indication for testing insulation.
- Highly efficiency and accurate DC-DC converter.
- Battery check function.
- Compact and lightweight.
- AC voltage measurement can be made without depressing the test button.

### Specifications

#### Insulation Resistance(GΩ)

Test voltage (DC V)	00V
Measuring ranges	0-200MΩ
Mid-scale value	5MΩ
Output voltage open circuit Rated test voltage +10%	
Accuracy	0.2-100MΩ : ± 5% rdg 0.7% of scale length at other ranges
Short circuit current	1mA DC

#### AC/DC Voltage

Measuring ranges	0-500V
Accuracy	± 2.5% of full scale

#### General

Operating temperature & humidity:	0°C ~ 40°C, up to 85% R.H.
Storage temperature & humidity:	-10°C ~ 50°C, up to 85% R.H.
Dimensions:	175(L) × 85(W) × 75(D) mm
Weight :	Approx. 510g (battery included)
Power source:	1.5V (AA) × 4
Safety standard:	EN 61010-1 CAT III 500V EN 61326-1

### Accessories

- Instruction manual
- Test leads
- Shoulder belt
- Batteries
- Soft pouch (Optional)

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## 1801 IN Insulation Tester for Telecoms



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### Features

- High quality Taut Band movement.
- Battery operated.
- Solid state circuitry.
- Battery check feature.
- Automatic circuit discharge.
- Three insulation test voltages.
- Color-coded scale.
- AC voltage measurement.
- Fuse protected.

### Specifications

#### Insulation Resistance(GΩ)

Test voltage (DC V)	50V / 125V / 250V
Measuring ranges	0-20MΩ / 0-50MΩ / 0-100MΩ
Output voltage open circuit	Rated test voltage +10%
Accuracy	0±5% of indicated value
Short circuit current	2mA DC
Power consumption	190mA

#### AC/DC Voltage

Measuring ranges	0-600V
Accuracy	± 2.5% of full scale
Line frequency range	40-1kHz

#### Continuity

Measuring range	0-50Ω & ∞
Accuracy	± 5% of scale length
Open circuit terminal voltage	4V DC Approx.
Short circuit terminal current	145mA DC Approx.
Power consumption	200mA

#### General

Dimensions	170(L) × 165(W) × 92(D) mm
Weight (battery included)	Approx. 1000g
Power source	1.5V (AA) × 8
Safety standard	EN 61010-1 CAT III 600V EN 61326-1

### Accessories

Instruction manual  
Test leads  
Shoulder belt  
Batteries