

# Ground Resistance Tester Model 3620 & 3620 Kit



Model 3620 Kit (optional)  
Catalog #2114.91



The Analog Ground Resistance Tester Model 3620 performs ground resistance measurements from 0.5 to 1000Ω with speed and accuracy.

The Model 3620 features three-terminal operation for Fall-of-Potential earth/ground resistance and also may be used for 2-Point tests.

The large 3.1" logarithmic analog scale is easy to read, with a separate marking for 25Ω. A large Press-to-Measure button allows for easy measurements. A manual zero adjust is provided for accurate readings. Color-coded binding post terminals are easy-to-use with banana plug and spade lug inputs.

The heavy duty ABS case is O-ring sealed against dust and water, and the Press-to-Measure button is also sealed. The Ground Tester Model 3620 is battery powered, for convenient use in remote field applications. Mechanical and safety specifications, such as vibration and drop test, meet or exceed IEC standards, to ensure safe and reliable field use.

The Ground Resistance Tester Model 3620 is the ideal instrument for electrical contractors, power utilities, REAs, telephone and CATV technicians, and inspectors who must check ground to determine compliance with NEC®, OSHA and other specifications.

The Model 3620 is also available in a complete kit form, which includes meter, 16 ft lead, two 150 ft leads on spools with wind-up handles to reduce lead tangling and two auxiliary ground electrodes packaged in a high-impact molded hard carrying case.



Model 3620 shown in  
standard soft carrying case  
Catalog #2114.90

## Features

- Fall-of-Potential method for 2- and 3-Point ground resistance tests
- Direct reading on large analog display 0.5 to 1000 $\Omega$  and easy 25 $\Omega$  readings
- Large 3.1" (77mm), easy-to-read scale for accurate readings
- Built-in battery check
- Three color-coded terminals
- Large Press-to-Measure button
- Portable and compact
- Extremely simple to operate: connect – press – read
- Designed to reject high levels of noise and interference

## Applications

- Measuring earth resistance of the type of single rod or small ground grids often found in remote telecommunication switching sites
- Measuring ground electrode resistance of lightning protection equipment
- Measuring the earth electrode resistance of equipment in recreational areas
- Testing electrode resistance of ground rods and grids at new construction sites, when utility supplied power has not been supplied
- Testing earth electrode resistance of grounded towers at cellular phone remote installations

## Specifications

ELECTRICAL	
Range	0.5 to 1000Ω
Resolution	10mΩ
Test Current	10mA
Resistance Measurement Frequency	128Hz square wave
Accuracy	±5% of Reading + 0.1% of galvanometer scale length
Auxiliary Electrode Influence	Rz 3000 times the reading up to 50kΩ Ry 50kΩ
Withstanding Voltage	250Vrms with spikes of 3000VAC or 1000VDC
Power Source	Eight 1.5V "AA" Alkaline batteries
Battery Life	1680 15-second tests (approximately)
Fuse Protection	High breaking capacity 0.1A, >250V, 0.25 x 1.25"
MECHANICAL	
Display	Analog Pivot movement
Connection	Color-coded terminals accept spade lugs with minimum gap of 6mm or standard 4mm banana jacks
Scale	3.1" (77mm) white scale with black pointer; one scale per range
Operating Temperature	14° to 131°F (-10° to 55°C)
Storage Temperature	-40° to 158°F (-40° to 70°C), 0 to 90% RH with batteries removed
Temperature Influence	5% per 10°C
Relative Humidity	20 to 90% maximum
Dimensions	8.7 x 5.4 x 5.9" (220 x 136 x 150mm)
Weight	2 lbs (1.3kg)
Case	Heavy-duty, ABS
Colors	Case safety yellow; Front panel gray
Mechanical Shock	IEC 68-2-27
Vibration Test	IEC 68-2-6
Drop Test	IEC 68-2-32
Environmental	O-ring sealed against dust and water to IP50
SAFETY	
Rating	EN 61010-1, Cat. III, Pollution Degree 2, 24V
Agency Approval	Emission: EN 50081-1 Immunity: EN 50082-1
CE Mark	Yes

## Accessories



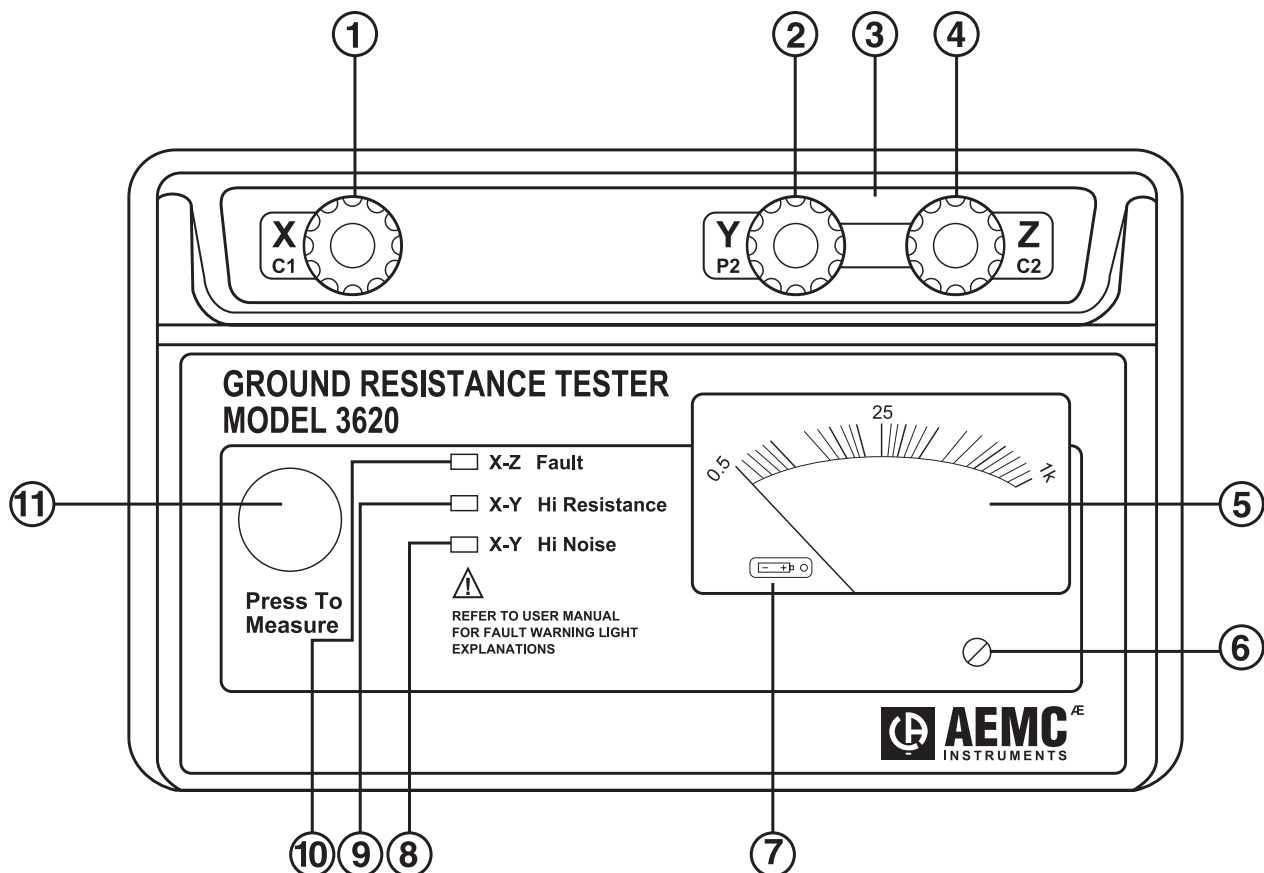
Model 3620 Kit  
Catalog #2114.91



25Ω Calibration Checker  
Catalog #2118.58

Test Kit for Model 3620 includes  
16 ft lead, two 150 ft leads on spools, two wind-up  
handles, two auxiliary ground electrodes and  
molded hard carrying case with slot for meter  
Catalog #2114.96





- |                                    |                          |                                  |
|------------------------------------|--------------------------|----------------------------------|
| 1. Input terminal X (C1)           | 5. Display               | 9. X-Y high resistance indicator |
| 2. Input terminal Y (P2)           | 6. Zero adjustment screw | 10. X-Y high noise indicator     |
| 3. Ground resistance shorting link | 7. Low battery indicator | 11. Press-to-Measure button      |
| 4. Input terminal Z (C2)           | 8. X-Z fault indicator   |                                  |

## ORDERING INFORMATION

## CATALOG NO.

**Ground Resistance Tester Model 3620 (3-Point Analog)** ..... Cat. #2114.90  
Includes soft carrying case, batteries and user manual

**Ground Resistance Tester Model 3620 Kit** ..... Cat. #2114.91  
Includes meter, one 16 ft lead, two 150 ft leads on spools with wind-up handles, two auxiliary ground electrodes, molded hard carrying case, batteries and user manual

### Accessories (Optional)

25Ω Calibration Checker ..... Cat. #2130.59

Tape Measure (100 ft) ..... Cat. #2130.60

Test Kit for 3-Point Testing (supplemental for 4-Point testing) includes two 100 ft color-coded leads, one 16 ft lead, two 16" T-shaped auxiliary ground electrodes and carrying case ..... Cat. #2130.61

Test Kit for 3-Point Testing includes two 150 ft color-coded leads on spools, one 16 ft lead, two 16" T-shaped auxiliary ground electrodes, 100 ft AEMC tape measure and carrying case ..... Cat. #2130.62

Test Kit for 4-Point Testing includes two 300 ft color-coded leads on spools, two 100 ft color-coded leads, one 16 ft lead, four 16" T-shaped auxiliary ground electrodes, 100 ft AEMC tape measure and carrying case ..... Cat. #2130.63

Ground Tester Video/Workbook set ..... Cat. #2130.64

## Contact Us

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