

SureTest® Circuit Analyzers

- Measures voltage drop under load*
 - Hot and neutral conductor impedances
 - Estimates Load on Line (ELL) up to 15A
 - Tests GFCIs and EPDs for proper operation
 - Super-bright display
 - High accuracies
 - True RMS
 - Line voltage
 - Peak voltage
 - Frequency
 - Ground to neutral voltage
 - Ground impedance
 - Identifies proper wiring in 3-wire receptacles
 - Identifies false (bootleg) grounds
 - Conducts testing without disturbing sensitive loads
 - Verifies isolated grounds (with 61-176 adapter)
 - 2-year warranty
- *12A, 15A, 20A load tests

61-165



Description	Cat. No.
SureTest® Circuit Analyzer - Tests AFCIs wiring, tests for shared neutrals	61-165
SureTest® Circuit Analyzer	61-164

Accessories

Includes	
Carrying Case	61-179
1' Extension Cord	61-182
Optional	
Ground Continuity Adapter	61-175
Isolated Ground Adapter	61-176
Alligator Clip Adapter	61-183

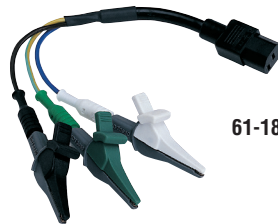
Specifications

	Range & Resolution	Accuracy
AC Voltage	85.0 - 265.0 VAC	1.0%
Frequency	45.0 - 65.0 Hz	1.0%
Impedance	0.00 - 1.99 Ω	5.0%
Ground-Neutral Voltage	0.0 - 24.0 VAC	2.0%
% Voltage Drop 12A, 15A, 20A load tests	0.1% - 50.0%	5.0%
GFCI Test Current/Time	6.0 - 9.0 mA 0.0 - 6500 mS	2.0%

CIRCUIT ANALYZERS



61-183



61-175



61-176



61-182



SureTest® Circuit Analyzer Functions

Voltage Drop

- NEC recommends no more than 5% voltage drop
- Higher voltage drop leads to heat buildup and performance issues
- <108V is a poor level for voltage load



Line Voltage

- Specification is 120VAC +/-10% (108 to 132 VAC)
- True RMS ensures accuracy in harmonic environments



Ground-to-neutral Voltage

- Good circuit has 2VAC or less
- Higher reading indicates loaded circuit, harmonic distortion or shared neutral



Ground Impedance

- Ground impedance should be 1 Ω or less (0.25 Ω or less for sensitive equipment to run properly)



GFCI

- Applies a 6-9mA fault current and measures the trip time
- Applies a 30mA fault current to check for equipment protection



Troubleshoots branch circuit problems with a variety of tests at the receptacle.



AFCI testing with alligator clips on an installed device.