

Clamp-On Ground Tester

Models 17548 & 17549

Provides an extra level of safety with new Touch Voltage indication feature

- ▶ Simple and fast clamp-on operation - no leads, no auxiliary rods or spacing requirements
- ▶ Large multi-function, bright yellow organic display (OLED)
- ▶ Selectable test frequency
- ▶ Android™ application provides reactive data review, geolocation and e-mailing of test results
- ▶ Automatic Hold function
- ▶ Displays stored measurements visible in direct sunlight and in dark areas
- ▶ Storage of measurements (Ω , A, V, alarms, test frequency with time-stamping)
 - Model 17548: stores up to 300 measurements
 - Model 17549: stores up to 2000 measurements



Technical Support: (800) 293-2001

www.ute-inc.com

Info@ute-inc.com

UTE

Ultra-Tech Enterprises, Inc.

"Dedication That Delivers Intelligent Solutions"

Test multi-grounded systems without disconnecting the ground system under test!



The **Ground Resistance Tester Models 17548 and 17549**, measure ground rod and grid resistance without the use of auxiliary rods. Clamp-on ground resistance testers can be used in multi-grounded systems without disconnecting the ground system under test or de-energizing them. The Models 17548 and 17549 simply clamp around the ground conductor or rod and measure the resistance to ground. By performing measurements on intact ground systems, the user also verifies the quality of the grounding connections and bonds. Resistance and continuity of grounding loops around pads and buildings may also be measured.

Two new features unique to AEMC® are test frequency selection and touch voltage indication. The ability to select the test frequency provides more accurate results in inductive environments. Displaying voltage derived from current and resistance measurements provides an extra level of safety for the user, indicating a potential dangerous touch condition. Both models include a current measurement function. The probe's high sensitivity enables measurement of leakage current flowing to ground or circulating in ground loops from 0.2mA to 40A and resistances from 0.01 to 1500Ω.

Both models offer battery life information at power-up and Auto-Off for power management. Additional features are also displayed on the large OLED display to ensure precise measurements. The Buzzer and Auto-Off Power features may be disabled from the push-buttons at any time.

Both offer an alarm function and a data storage function. In the Alarm mode, the probe will audibly and visually indicate if the reading is beyond the user programmed set point. The user may have the alarm activate above or below the set point. This alarm feature permits quick field checks where only "pass" or "fail" readings are required.

The data storage function enables the user to conduct field surveys, and to retrieve and analyze the readings at a later time. The alarm settings and stored data are saved when the ground tester is turned off. The 17549 provides *Bluetooth* transmission to a PC for analysis and report generation via the included DataView® software.

Now a simple solution to read your measurements



Results, on the Go!



Model 17549 is available with an Android™ application for easy data programming, downloading, printing and e-mailing test results from your mobile device.

With its mobile GPS capability, users are now able to easily locate the site associated with the measurements.



*Model 17549 only

Represented By:

TPSC
Transportation Products
Sales Company

www.ute-inc.com

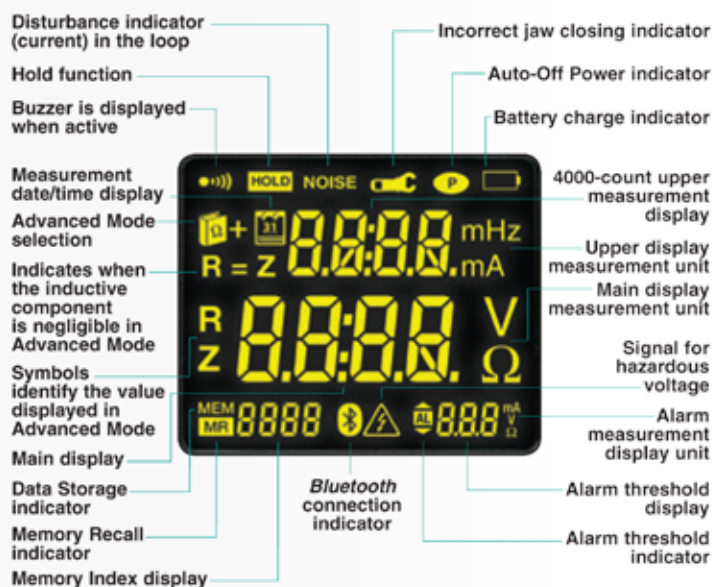
Technical Assistance (800) 293-2001

UTE
Ultra-Tech Enterprises, Inc.
"Dedication That Delivers Intelligent Solutions"

SPECIFICATIONS Models 17548 & 17549

FEATURES

- ▶ Touch voltage display – alerts user to potential unsafe conditions
- ▶ Large multi-function, bright yellow organic display (OLED) usable in all lighting conditions
- ▶ Display in Standard mode (1 screen) or Advanced mode (3 screens)
- ▶ Selectable test frequency improves accuracy in inductive environments
- ▶ Data storage (Ω and/or A, with time-stamping)
Model 17548: stores up to 300 measurements
Model 17549: stores up to 2000 measurements
- ▶ Displays stored measurements on the OLED display or via *Bluetooth* to a PC or the Android based mobile application. (Model 17549)
- ▶ Easy clamp opening by a force compensation trigger system
- ▶ Large jaw design, 1.38" (35mm) accommodating up to 1000kcmil cables
- ▶ Alarm function with adjustable set point and buzzer for quick field checks
- ▶ Rugged Lexan® head and body construction resists breakage
- ▶ Alarm settings and stored memory information saved during shutdown (Model 17549)
- ▶ NOISE icon and buzzer alert user to presence of dangerous voltage and current levels
- ▶ Automatic Hold of measurement when jaw is opened



ELECTRICAL			
Ground Resistance	Measurement Range	Resolution	Accuracy (% of Reading)
Auto-Ranging 0.01 to 1500Ω	0.010 to 0.099Ω	0.001Ω	±1.5% ±0.01Ω
	0.10 to 0.99Ω	0.01Ω	±1.5% ±0.01Ω
	1.0 to 49.9Ω	0.1Ω	±1.5% ±0.1Ω
	50.0 to 99.5Ω	0.5Ω	±2% ±0.5Ω
	100 to 199Ω	1Ω	±3% ±1Ω
	200 to 395Ω	5Ω	±5% ±5Ω
	400 to 590Ω	10Ω	±10% ±10Ω
	600 to 1150Ω	50Ω	20% approx
	1200 to 1500Ω	50Ω	25% approx
Current Measurement	0.200 to 0.999mA	1μA	±2% ±50μA
Auto-Ranging 0.2mA to 40A	1.000 to 2.990mA 3.00 to 9.99mA	10μA	±2% ±50μA
	10.00 to 29.90mA 30.0 to 99.9mA	100μA	±2% ±100μA
	100.0 to 299.0mA 0.300 to 0.990A	1mA	±2% ±1mA
	1.000 to 2.990A 3.00 to 39.99A	10mA	±2% ±10mA
Resistance Measurement Frequency	50, 60, 128 or 2083Hz (user selectable)		
Current Measurement Frequency	47 to 800Hz		
Power Source	4x1.5V LR6 (AA) Alkaline batteries or 4 NiMH batteries; Battery life: 12 hours, or 14,400 30-second measurements approx		
Data Storage	Model 17548: 300 measurements; Model 17549: 2000 measurements		
MECHANICAL			
Dimensions	2.16 x 3.74 x 10.31" (55 x 9 x 262mm)		
Weight	2.06 lbs (935g) approx. with batteries		
Jaw Opening	1.38" (35mm) max		
Display	Multi-function, bright yellow organic display (OLED)		
ENVIRONMENTAL			
Operating Temperature	-4° to 131°F (-20° to 55°C)		
Operating Humidity	10% to 90% RH		
SAFETY			
Safety Rating	EN 61010-1 (Ed. 2 of 2001); 600V CAT IV		

PRODUCT INCLUDES



Calibration loop, battery, hard carrying case, and USB stick supplied with ground tester workbook and user manual. Model 17549 also includes DataView® software on USB stick.

ORDERING INFORMATION

- Ground Resistance Tester Model 17548 (Clamp-On, Alarm, Memory)
- Ground Resistance Tester Model 17549 (Clamp-On, *Bluetooth*, Alarm, Memory)

UTE P/N

- 17548-00
- 17549-00