

Leviton's New UL Listed RTT99 Receptacle Tension Tester

- **Advanced digital handheld device**
- **Line and ground contact retention testing of receptacles and outlets**
- **Ideal for hospitals, testing laboratories and commercial buildings**
- **Microsoft Windows®-based software to manage and analyze data**

1 YEAR LIMITED WARRANTY





RTT99, CD-ROM & Case

Definition:

Leviton's new RTT99 Receptacle Tension Tester is a versatile digital handheld device that measures the amount of retention force applied to inserted plug blades by line and ground contacts in electrical receptacles and outlets. Individual line and ground contact forces are measured quickly and accurately and displayed digitally, allowing the user to record the retention force of each contact. The RTT99 is intended for use in 15 or 20 Amp straight blade receptacles and outlets rated at 125 or 250 Volts.

Applications:

Industry	Application
 <p>Hospital & Health Care Facilities</p>	<p>Performance testing and documentation procedure for standard specification and hospital grade receptacles. The RTT99 testing and documentation program ensures compliance with the newly revised NFPA 99 testing standard for hospital and health care facilities. Proper maintenance testing ensures reliable device performance and helps identify problematic areas</p>
 <p>Commercial & Institutional Buildings & Campuses</p>	<p>Preventative maintenance (PM) for receptacles and outlets assists in identifying safety hazards and avoids potential downtime due to abused or poor quality electrical devices. The RTT99 tester and documentation program can supplement current inspection and PM efforts to ensure that receptacles are in compliance</p>

The 1999 edition of NFPA 99 establishes parameters for testing and maintenance of electrical receptacles in hospitals and health care facilities. An excerpt from the standard is listed below:¹

NFPA 99, 1999 Edition

Chapter 3-3 Section 3-3.3.3 Receptacle Testing in Patient Care Areas

- a. The physical integrity of each receptacle shall be confirmed by visual inspection.
- b. The continuity of the grounding circuit in each electrical receptacle shall be verified.
- c. Correct polarity of the hot and neutral connections in each electrical receptacle shall be confirmed.
- d. The retention force of the grounding blade of each electrical receptacle, (except locking-type receptacles) shall be not less than 115g (4 ounces).

Chapter 3-3 Section 3-3.4.2.3 Maintenance and Testing of Electrical Systems

- a. Testing Interval for Receptacles in Patient Care Areas
 1. Testing shall be performed after initial installation, replacement, or servicing of the device.
 2. Additional testing shall be performed at intervals defined by documented performance data.

Exception: Receptacles not listed as Hospital Grade shall be tested at intervals not exceeding 12 months.

Chapter 3-3 Section 3-3.4.3.1 Record Keeping

A record shall be maintained of the tests required by this chapter and associated repairs or modifications. At a minimum, this record shall contain date, the rooms or areas tested and an indication of which items have met or have failed to meet the performance requirements of the chapter.

¹ From National Fire Protection Association's 1999 Edition of Standards for Health Care Facilities. NFPA99.



Identification and correction of unsafe conditions by means of inspection of electrical systems can help reduce potential electrical hazards.²

NFPA 73, 1996 Edition

Chapter 2 Section 2-10.7 General Requirements

Receptacle contacts shall have acceptable blade retention when tested with a listed retention tester.



The RTT99 (shown at left) quickly and accurately measures the peak retention force of a line contact. To measure the ground contact insert RTT99 into the ground contact and remove slowly to determine retention of the contact. NFPA 99 Standard requires a minimum ground contact tension of 115g (4 ounces).



The automated record keeping system permits documentation of the date, room or areas tested and the exact results of each test. Data can be saved to file and printed if required.

² From National Fire Protection Association's NFPA 73 Residential Electrical Maintenance Code For One- and Two-Family Dwellings, 1990 Edition.

UL-Listed RTT99 Receptacle Tension Tester

Insulated bushing provides safety barrier from live electrical components

Machined stainless steel line blade (Ground pin insert also included)

Impact-resistant, non-conductive case withstands abuse

Digital display provides retention force in ounces. UL Listed to $\pm 2.5\%$ accuracy

Reset button resets unit to zero setting after each test

Instrument operating instructions enable user to quickly and easily perform accurate tests

RTT99 Receptacle Tension Tester comes with the following:

- Protective instrument case
- Ground and line contact test blades
- 8-ounce calibration weight
- Wiring Device Inspection Software Program CD-ROM

Features and Benefits:

- Test each receptacle contact for retention
- Supplied with threaded line blade and ground pin for quick and easy interchangeability
- Regular testing of receptacle line contacts decreases the possibility of fire hazard due to poor electrical connections
- Digital display reduces testing time by supplying immediate results
- Includes documentation software that permits electronic storage of readings with custom sort, performance analysis and print out capability.
- Simplifies administrative process of meeting NFPA 99 inspection requirements by providing precise quantifiable data over time
- Compact design for greater portability and ease of use
- Designed for 15 or 20 Amp straight blade receptacles and outlets rated 125 or 250 Volts
- Includes long life 9-volt battery
- Comes with easy-to-use calibration weight for a quick accuracy check
- Factory-calibrated tester
- RTT99 unit is constructed of impact-resistant thermoplastic for long service life
- Comes in a deluxe protective instrument case that protects against damage while unit is not in use
- Limited One-Year Warranty

READ INSTRUCTION BOOKLET BEFORE USING

WARNING: LINE BLADE WILL BE ENERGIZED DURING TEST PROCEDURE. TO AVOID ELECTRIC SHOCK, DO NOT TOUCH LINE BLADE DURING TEST.

Check Calibration of Unit Before Each Testing Session With Accompanying 8 Ounce Weight.

BRIEF INSTRUCTIONS


- 1) Screw Line Blade or Ground Pin into Threaded Adapter on Front of Unit
- 2) Press Start to Power and Initialize Unit
- 3) Insert Unit into an Outlet Line or Ground Contact
- 4) Withdraw Unit Slowly and Straight from Outlet

Health Care Facilities - NFPA Standard No. 99
Retention Force of Ground Contact Must Be:
4.0 OUNCES MINIMUM

Replace Receptacle if Ground Retention Does Not Comply With NFPA 99.

Reprint of applicable sections of NFPA 99 performance standard for quick reference

Note: Actual size shown

Ground Contact Retention Force	
National Fire Protection Association NFPA 99 Standard for hospitals and health care facilities.	
Ground Contact	Retention
	≥ 4 Ounces



Agency Standards & Compliance:

- UL 1436 Standard
- UL Listed (File # E90289)
- UL Listed for Canada (File #E90289)

RTT99 Wiring Device Inspection Software Program CD-ROM Microsoft Windows® Compatible



Proprietary RTT99 Computer Maintenance Management Software (CMMS) manages wiring device performance data. Custom input fields record test results and create a data bank of information on buildings, devices and corrective actions. Data can be viewed or printed and used to supplement Preventative and Predictive Maintenance efforts. RTT99 software conforms to specific testing and documentation standard set forth by the National Fire Protection Agency Standard 99 (NFPA 99)

RTT99 Wiring Device Inspection Software

Ordering Information Receptacle Tension Tester

Cat. No.	Description
RTT99	UL-Listed Digital Tester. Ground and Line Contact Test Blades, 8-ounce Calibration Weight, Wiring Device Inspection Software Program CD-ROM, Instrument carrying case
RTW08	8-ounce Calibration Weight
RTB01	Replacement Blade Set (Ground pin and line blade)
RTC00	Deluxe RTT99 Instrument Carrying Case

Leviton Manufacturing Co., Inc.

59-25 Little Neck Parkway, Little Neck, NY 11362-2591
 Telephone: 1-800-323-8920 • FAX: 1-800-832-9538
 Tech Line (8:30AM-6:00PM Eastern Time Monday-Friday): 1-800-824-3005

Leviton Manufacturing of Canada, Ltd.

165 Hymus Boulevard, Pointe Claire, Quebec H9R 1E9
 Telephone: 1-800-469-7890 • FAX: 1-800-563-1853

Visit Leviton's Web site at <http://www.leviton.com>

