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TS®44 Deluxe Test Set

Rugged and Waterproof with New DataSafe® Pro Data Protection Technology

Communication professionals and major phone companies demand data protection in their test equipment. Accidentally clipping onto the wrong pair in a wiring closet or cross-box is the biggest threat to data lines and can interrupt critical data traffic, down a PBX, or down a server. Harris Corporation's new TS®44 DLX test set is equipped with new DataSafe Pro Data Protection Technology featuring superior high-impedance monitoring, Data Lockout and Lockout Override, making you completely safe in Talk, Monitor or Override Mode. This intelligent test set will check for normal POTS voltage and the presence of data the moment you clip on the line. Data lockout and override protection will alert the technician to the presence of data and only allow override if normal POTS voltage is detected. New patent-pending filtering technology allows a technician to safely draw dial tone on a live DSL/POTS shared line to test the POTS service while protecting the DSL from downing or disruption. No competing test set is available that can ensure this level of protection; now the industry standard at major phone companies.

This unit is designed with the ruggedness you expect only from a Harris Test Set and backed by a 3-year warranty. The enhanced waterproof case has tested to withstand high rainfall intensities accompanied by winds of 40 miles per hour, exceeding the American Military Spec MIL-STD-810E. It even floats! With advanced testing functions for low and high voltage or low current, results are displayed with easy-to-read LEDs. Our Passive Monitor Mode allows technicians to monitor the line without having to physically turn on the set. Just clip onto the pair and it's monitoring! This easy-to-use unit comes with all the features that make a technician more productive in the field, including a high-fidelity, two-way hands-free speakerphone, speed dialing, a low battery warning indicator and a reversible oversized locking belt clip.

TOP FEATURES OF THE TS44 DELUXE TEST SET

DataSafe Pro Data Protection Technology: Featuring superior high-impedance monitoring, Data Lockout and Lockout Override, making you completely safe in Talk, Monitor or Override Mode.

DSL/POTS Filtering Technology: A technician can butt in on a live DSL line and pull dial tone to test the POTS service without downing or disrupting the data service.

Low and High Voltage LED's: By pressing the TEST button in the Monitor mode, a technician can tell if the line is:

Condition	LED's
Spare (non working) Pair	LO Vdc solid for 5 seconds
Open (no battery)	LO Vdc solid for 5 seconds
Crossed or Grounded Circuit	LO Vdc blinking for 5 seconds
Customer Talking on Line	LO Vdc blinking for 5 seconds
T1 (Hi-Cap 130V) Circuit	HI Vdc blinking for 5 seconds
DAML (190+ V) Circuit	HI Vdc solid for 5 seconds
Good POTS or DSL* Circuit	Both LO and HI Vdc blinking for 1 second along with a confirmation tone

Low mA LED: After the technician has checked for voltage, they can press the TEST button in Talk mode to check line current. If the current is less than 23mA's, the LO mA LED will blink for 5 seconds. If the line current is more than 23 mA the LED will light solid for 5 seconds. Possible problems, poor copper or too far from the central office. This is especially helpful when provisioning (conditioning for pay phones) coin lines. If the loop current is less than 23 mA on a coin line, it may not detect coin deposits.

Passive Monitor Mode: Allows technician to monitor the line without having to physically turn on the set. Just clip onto the pair and it's monitoring!

Mute Indicator: In the TALK mode, the technician can mute the transmitter by pressing the MUTE button. The MUTE LED will blink as long as the transmitter is muted. This provides the technician with a visual reminder. NOTE: It works in both the standard and hands-free mode.

Receive Only Speakerphone: The TS44 comes equipped with two-way external speakerphone capability. Some technicians prefer to use only the external receiver. Pressing the STORE/PROG button followed by the MUTE button will disable the external transmitter. A confirmation tone will alert the user that the change has been made. Repeating the process will change the set back to two-way speakerphone functionality.

3 Year WARRANTY

TS44 Deluxe Test Set Features/Benefits:

DataSafe Pro Protection:

- Superior high-impedance monitoring
- Patent-Pending DSL/POTS filtering technologies
- Data Lockout
- Lockout Override

Testing:

- Data indication/warning
- Low & high voltage indication/warning
- Low current (mA) indication/warning

Durability & Exterior:

- Waterproof case design for sever weather conditions, exceeds American Military Spec MIL-STD-810E
- DropSafe™ 20ft onto concrete
- Mountable, top or bottom, extra large steel locking belt clip
- Line cord strain relief

Other:

- Software upgradeable
- Passive monitor
- 2-Way hands-free speakerphone
- Low battery warning
- Mute indication
- Polarity indication
- Tone & pulse dialing
- (Optional) 1-Way amplified speakerphone mode
- Amplified speaker
- Last number redial
- Over voltage protection
- Over current protection
- Mute
- PBX pause button
- Audible ringer
- Speed dialing
- Volume control levels
- Line and battery powered
- Hearing aid compatible

Ordering Information:

44801-009	TS44 Deluxe Butt Set, w/ Angled Bed-Of-Nails Cord
44801-004	Deluxe Butt Set, CO, w/346A Plug
44801-001	TS44 Deluxe Butt Set, w/ Piercing Pin Cord
P4480-009	Replacement cord TS44/42 w/ABN
P4480-004	Replacement cord TS44/42 w/346A Plug
P4480-001	Replacement cord TS44/42 w/Piercing Pin

TS44 Deluxe Test Set Specification Sheet

Parameter	Working Limits
ELECTRICAL	
Current Range (Off-Hook)	10 to 100 mA
DC Resistance	
Off-Hook	300 Ω nominal
On-Hook	>3 MΩ
AC Impedance	
Off-Hook	600 Ω nominal; 300-3400 Hz
On-Hook	>120 kΩ; 300-3400 Hz
Rotary Dial Output	
Pulsing Rate	10 pps ±1 pps
Break/Make Ratio	60/40
Interdigit Interval	>300 ms
Resistance During Break	>100 kΩ
DTMF Output	
Tone Frequency Error	±1.5 % maximum
Tone Level	-3 dBm combined (typical)
High versus Low Tone Difference	2 dB ± 2 dB
Memory Dialing	
Memory Capacity	10 speed dial memories plus one last number redial memory
Digit Capacity	23 digits per memory
PBX Pause Duration	User programmable; default = 4 seconds
Hook Flash Duration	User programmable; default = 600 ms
Automatic Speaker Shut Off Duration	User programmable; default = 2 minutes
Battery	9 Volt Alkaline
Data Detection and Lockout Capability	Twisted pair data services including: T1, E1, ISDN PRI, IDSN BRI, HDSL, SW56, IDSL, SDSL, VDSL, and ADSL.
PHYSICAL	
Length	254 mm (10 inches)
Width	96 mm (3 3/4 inches)
Height	107 mm (4 1/4 inches)
Weight	Less than 0.68 kg (1.5 pounds)
ENVIRONMENTAL	
Water Resistance	Designed to be rain and moisture resistant.
Temperature Range	Operating: -34° to 60°C (29° to 140°F) Storage: -40 to 66°C (-40° to 150°F)
Altitude	To 3,000 meters (10,000 feet) max.
Drop	Designed to withstand two 20-foot drops and twelve 12-foot drops onto concrete.

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