

TS[®] 54 TDR Premium Voice, Data, and Video Telephone Test Set

The innovative TS54 TDR (Time Domain Reflector) is perfect for voice, data and video technicians and communication service provider technicians who need a best-in-class test set combined with a powerful TDR and toner. Fluke Networks took the best telephone test set features and design and combined them into one. There's nothing else like the TS54 TDR on the market today. No longer will you need to carry a separate TDR, toner, pair identifier and butt-in test set—everything you need is in one newly redesigned and compact package.

The TS54 delivers 20% more extreme weather protection with the latest advancements to our patented RainSafe™, DropSafe™ and DataSafe™ technology. This means the TS54 is weatherproof and rugged and able to butt in on live DSL lines to test POTS quality without crashing data service.



Features:

• **TDR** – find cable length measurement and locate faults on virtually all types of cable including twisted pair, coaxial, and parallel conductors

networks

2500

RCL

SPEAKER

MUTE

TVDC

MON

TDR Result

Short at

TDR Results

MENU/ ENTER LNR

MON

TDR

FLASH/ PAUSE

Extra-large, backlit

MON

TDR

FLASH/ PAUSE

3

LCD screen

TALK

SPEAKER

MUTE

8 9 WXY

0 07

Short at

TS54 TDR

- **Toner** five separate tones for fast and easy differentiation between multiple wire pairs
- SmartTone[®] short the correct pair and tone changes for exact pair identification
- Additional key testing functions include:
 - **1. Data indication** warns when data is present on the line
 - 2. Voltage indication/measurement identifies potential line problems
 - 3. Current (mA) indication/measurement – verifies sufficient line current
 - **4. Caller-ID with Call Waiting** verifies functional service
 - DTMF Digit Grabbing isolates faulty customer premise equipment
 - 6. Detects dial tone, places and receives calls
 - 7. Polarity
- DropSafe[™] PRO passed 20-foot drop test onto concrete
- RainSafe[™] PRO protection for extreme weather conditions
- DataSafe[™] PRO prevents disruption of data transmission on the line <u>networks</u>
- High-visibility keypad with glow-in-the-dark keys for any outside plant environment
- Extra-large, backlit LCD screen
- Familiar, cell phone-like menu and user interface
- Two-way, hands-free speakerphone
- Low battery and

Glow-in-the-dark keys for any outside plant environment

900m

Premium Voice, Data, and Video Telephone Test Set

Technical Specs





Specifications

Electrical Current range (Off-Hook) 10 mA to 100 mA DC Resistance Off-hook 150 Ω nominal On-hook >3 MΩ AC Impedance 00 Ω nominal; 300 Hz to 3400 Hz On-hook >120 kΩ; 300 Hz to 3400 Hz Headset impedance 32 Ω Rotary Dial Output Pulsing rate Pulsing rate 10 pps ± 1 pps Break/make ratio 60/40 Interdigit interval >300 ms Resistance during break >100 kΩ DTMF Output -100 kΩ Tone frequency error ±1.5% maximum Tone level -3 dBm combined (typical) High versus low tone difference 2 dB ± 2 dB Speed Dialing 9 speed dial memories of 23 digits, plus one last number redial memory PBX pause duration User programmable; default of 4 seconds Hook flash duration User programmable; default of 2 minutes Voltage measurement Voltage measurement	
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Automatic shut-off duration User programmable; default of 2 minutes	
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Voltage measurement	
Range 4 V dc to 140 V dc	
Current measurement	
Range 0 mA to 100 mA	
TDR	
Range 3,000 feet (914 m)	
Accuracy ±2 m ±5 %	
SmartTone toner	
Frequencies Steady tone: 950 Hz Alternating tones: 950 Hz and 1480 Hz	
Power	
Battery type 9 V alkaline battery	
Physical	
Dimensions8.3 in x 3.2 in x 2.6 in (211 mm x 81 mm x 66 mm) (without belt clip)	
Weight1.16 lb (0.53 kg) (without belt clip)	
Water resistance The test set is rain and moisture resistant	

Environmental		
Temperature range		
Handset speech and dialing functions	-22°F to 140 °F (-30°C to 60°C)	
LCD function	-13°F to 140°F (-25°C to 60°C)	
Storage	-22°F to 150°F (-30°C to 66°C)	
Altitude	To 10,000 ft. (3,000 m) max	
Relative humidity	95% to 30°C 75% to 40°C 45% to 50°C 30% to 60°C	
Safety		
Regulatory compliance	Complies with ANSI/ISA 82.02.01 (61010-1) 2004, CAN/ CSA-C22.2 No. 61010-1-04, UL 61010-1 (2004) and IEC 61010-1:2010 for measurement category I, 300 V dc maximum, pollution degree 2	
Maximum transient voltage	1500 V	
ЕМС	Complies with EMC EN61326-1	
Notes: Specifications subject to change without notice.		

Ordering Guide

Item Number	Description	
TS54-A-09-TDR	Test Set + TDR, ABN with Piercing Pin	
TS54-BANA	Test Set + TDR, 4 MM Banana, Extra-large Alligator Clips, Test Probe	

Accessories Guide

Item Number	Description
BELTCLIP-TS	Belt Clip
LEAD-PIRC-PIN	Test Leads with Piercing Pin Clips
LEAD-CO-346A	Test Leads with a 346A Plug for the Central Office ¹
LEAD-ABN-PPIN	Test Leads with Angled Bed-of-Nails (ABN) and Piercing Pin Clips
LEAD-ALIG-CLP	Test Leads with Alligator Clips
LEAD-ABNPRJ11	Test Leads with an RJ-11 Plug, Angled Bed-of-Nails (ABN), and Piercing Pin Clips
TEST-LEAD-BANA-CLP	Test Leads with a 4 mm Banana Plug, Alligator Clips, and Test Probe
HEADSET-TS	Headset
HANGER-TS	Hanger Kit (magnetic and clip-on hangers for the test set)

1. When you use these test leads, the TDR accuracy specifications do not apply.

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Fluke Networks operates in more than 50 countries worldwide. To find your local office contact details, go to www.flukenetworks.com/contact.

For more information, visit www.flukenetworks.com/ts54

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