# FLUKE networks®

# TS® Professional Series



**VDV**

**DropSafe**

**DataSafe**

**RainSafe**

**Backlit LCD**

**2-way Speakerphone**

The newest generation of Voice, Data and Video test sets. Fluke Networks took the best features from its existing telephone test sets, added new technology and totally redesigned them to lighten your tool belt and wallet – a 62% weight reduction and a 20% cost reduction over existing products.

Test set, butt set, buttinski – no matter what you call them, telephone test sets are a standard among telephone linemen. For the past 100 years, a test set's functionality hasn't changed much. Times are changing, networks are changing and now butt sets are changing. No longer are they single-purpose tools but are evolving into full-fledged, multi-functional test sets. Enter Fluke Networks' newest line of VDV (voice, data and video) telephone test sets. We've taken the best features from our existing line, added new technology and totally redesigned them to lighten up your tool belt.

The Occupational Safety and Health Administration (OSHA) lists the following as a potential hazard, "loaded tool belts may weigh over 50 pounds causing an increased load and contact stress on the lower back and hips."[1] OSHA also outlined possible solutions for the heavy tool belt, "When possible, reduce the weight of the tool belt by reducing the number of tools carried to those necessary for the task."[2] Fluke Networks did just that. These newly designed test sets combine three tools into one; telephone test set, toner and Time Domain Reflectometer (TDR) all in a durable, one-pound case.

## TS®54 TDR – Premium Voice, Data and Video Test Set

The TS54 TDR is perfect for voice, data and video professionals and communication service provider technicians who need a best-in-class test set combined with a powerful TDR and toner. Buying the TS54 TDR means you no longer need to carry a separate TDR, toner, pair identifier and test set – that's a 62 percent weight reduction and a 20 percent cost reduction over existing products.

The TS54 not only delivers 10-testing functions but also delivers 20 percent 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. The TS54 TDR gives you the power and functionality you need to keep up with an ever-changing network.

## TS®53 PRO – Professional Voice, Data and Video Telephone Test Set

The TS53 PRO delivers voice, data and video professionals and communication service provider technicians the seven-essential testing functions needed in one telephone test set. The TS53 PRO contains all the latest advancements to our patented RainSafe™, DropSafe™ and DataSafe™ technology all in our newly-designed, ruggedly-built case.

## TS®23 PRO – Standard Voice, Video and Data Telephone Test Set

The TS23 PRO gives voice, data and video professionals and communication service provider technicians all the functionality needed in a telephone test set. The TS23 PRO performs four essential tests and includes our patented RainSafe™, DropSafe™ and DataSafe™ technology all in our newly-designed, ruggedly-built case.

1. OSHA, "Ergonomics eTool: Solutions for Electrical Contractors," n.d., (accessed March 29, 2012).
2. OSHA, "Ergonomics eTool: Solutions for Electrical Contractors," n.d., (accessed March 29, 2012).

# Times change...
# Networks change...
# Now test sets are changing...

FLUKE networks          TS54 TDR

**Low battery indication**

**Speakerphone indication**

**TDR – find cable length measurement up to 3,000 ft (975 metres) on virtually all types of two conductor cable including twisted pair, coaxial and parallel conductors**

**Menu-driven operability**

**Two-way, hands-free speakerphone**

**High-visibility keypad with glow-in-the-dark keys for any outside plant environment**

MON   VDC

TDR Results
Short at
2500 ft

MENU/ENTER

RCL    LNR

TALK    MON

SPEAKER    TDR

MUTE    FLASH/PAUSE

1    2 ABC    3 DEF

4 GHI    5 JKL    6 MNO

7 PRS    8 TUV    9 WXY

*    0 QZ    # OVER RIDE

**RainSafe™**
**DropSafe™**
**DataSafe™**

**Large backlit LCD screen**

**Test POTS quality on live DSL lines without disrupting service**

**Built-in toner with SmartTone® technology to guarantee your pair**

**One-button TDR testing**

**Headset compatible**

## Comparison Guide

| | TS®54 TDR | TS®53 PRO | TS®23 PRO |
|---|:---:|:---:|:---:|
| TDR opens/shorts to 3,000 ft/1,000 m | • | | |
| Built-in toner w/5 different tones | • | | |
| Patented SmartTone® for exact pair identification | • | | |
| Caller-ID w/ Call Waiting verification | • | • | |
| Extra-large LCD (Liquid Crystal Display) | • | • | |
| Backlit LCD with glow-in-the-dark keypad | • | • | |
| DTMF Digit Grabbing | • | • | |
| Headset compatible | • | • | • |
| Extended range high-impedance DataSafe™ operation | • | • | • |
| High-impedance DataSafe operation in monitor mode | • | • | • |
| Data lockout protection and override | • | • | |
| DSL/POTS filtering technology | • | • | • |
| Voltage and current digital readout | • | • | |
| Voltage and current indicator | • | • | • |
| Over-voltage protection and over-current protection | • | • | • |
| One-way amplified speaker for hands-free monitoring | • | • | • |
| Audible ringer for callbacks | • | • | • |
| Weatherproof – IP64 | • | • | • |
| Meets Bellcore specifications | • | • | • |
| Polarity indication/tone and pulse operation | • | • | • |
| PBX pause button | • | • | • |
| Visual ANAC (Automatic Number Announcement Circuit) mode option. Not available in all regions | • | • | |
| 3-year Warranty | • | • | • |

### Ordering Guide

| Item Number | Description |
|---|---|
| TS54-A-09-TDR | TS54 Test Set, TDR, ABN with Piercing Pin |
| TS54-BANA | TS54 Test Set, TDR, 4 MM Banana, Extra-large Alligator Clips, and Test Probe |
| TS53-A-09 | TS53 Test Set, ABN with Piercing Pin |
| TS53-P-01 | TS53 Test Set, Piercing Pin |
| TS53-AR-09 | TS53 Test Set, ABN with Piercing Pin and RJ-11 |
| TS53-C-04 | TS53 Test Set, Central Office (CO) 346A Plug |
| TS53-BANA | TS53 Test Set, 4 MM Banana Plug, Extra-large Alligator Clips, and Test Probe |
| TS23-A-09 | TS23 Test Set, ABN with Piercing Pin |
| TS23-P-01 | TS23 Test Set, Piercing Pin |
| TS23-AR-09 | TS23 Test Set, ABN with Piercing Pin and RJ-11 Plug |
| TS23-BANA | TS23 Test Set, 4 MM Banana Plug, Extra-large Alligator Clips and 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 |
| LEAD-BANA-CLP | Test Leads with a 4 mm Banana Plug, Alligator Clips, and Test Probe |
| HEADSET-TS | Headset |

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

For more information, visit **www.flukenetworks.com/tsproseries** or call 1-800-283-5853