

Megger TDR500/3

Megger TDR500/3 User Manual

Basic Handheld Time Domain Reflectometer

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of the Megger TDR500/3 Basic Handheld Time Domain Reflectometer. The TDR500/3 is a compact, portable instrument designed for accurately locating faults on metallic cables, such as opens, shorts, and impedance changes.

Please read this manual thoroughly before using the device to ensure proper understanding and to prevent damage to the instrument or injury to personnel.

2. SAFETY INFORMATION

WARNING: Always observe standard safety precautions when working with electrical equipment and cables. Failure to do so may result in serious injury or death.

- Ensure the cable under test is de-energized and isolated from all power sources before connecting the TDR500/3.
- Do not use the instrument if it appears damaged or if its operation is abnormal.
- Only use accessories and cables supplied or approved by Megger.
- Keep the instrument dry and clean. Avoid exposure to extreme temperatures or humidity.
- Refer all servicing to qualified personnel. There are no user-serviceable parts inside.

3. PRODUCT OVERVIEW

The Megger TDR500/3 is engineered for ease of use and precision in cable fault location. Its robust design and intuitive interface make it suitable for professional use in various industrial and scientific applications.

3.1 Key Features

- **AUTO Selection Option:** Automatically selects the most effective parameters for the required range, facilitating rapid diagnosis.
- **Trace HOLD Feature:** Allows the operator to freeze the trace on the screen for detailed analysis.
- **Backlit Graphics Monochrome LCD:** A 256 x 128 pixel display with white-light backlight and grey scale tones for clear visibility.
- **Adjustable Display Contrast:** Optimize screen readability in various lighting conditions.
- **High Resolution:** Provides resolution down to 0.1 meters (0.3 feet).
- **Wide Range:** Capable of testing cables up to 5 kilometers (15,000 feet), depending on velocity factor and cable type.
- **Multiple Output Impedances:** Selectable impedances of 25, 50, 75, and 100 Ohms to match various cable types.
- **Adjustable Velocity Factor (VF):** Configurable from 0.2 to 0.99 to accommodate different cable dielectric properties.

3.2 Device Layout



Figure 1: Front view of the Megger TDR500/3. The device features a monochrome LCD at the top, displaying trace data, velocity factor (VF), and impedance (Z). Below the screen are navigation buttons and a backlight control. A central four-way directional pad and a 'HOLD' button are located mid-body. The lower section includes a large rotary selector with 'AUTO', 'OFF', TDR waveform, and 'Setup' (wrench) positions, along with the Megger TDR500/3 branding.

The TDR500/3 features a clear graphical display and a user-friendly control layout:

- **LCD Display:** Shows the cable trace, distance to fault, velocity factor (VF), impedance (Z), and range settings.
- **Control Buttons (below LCD):** Used for navigation and adjusting display settings like contrast and backlight.
- **Directional Pad:** For navigating menus and moving the cursor on the trace.
- **HOLD Button:** Freezes the current trace on the display.
- **Rotary Selector:** Used to select operating modes: AUTO, OFF, TDR measurement, and Setup.

4. SETUP

4.1 Powering the Device

The Megger TDR500/3 operates on AC power. Connect the supplied AC adapter to the device's power input and then to a suitable AC power outlet. The device does not use internal batteries.

4.2 Connecting to Cables

Before connecting the TDR500/3 to any cable, ensure the cable is completely de-energized and isolated from all power sources. Connect the appropriate test leads (not included, but typically BNC or alligator clips) to the TDR500/3's input port and then to the cable under test. Ensure a secure connection to minimize signal reflections.

5. OPERATION

5.1 Turning On/Off

To turn on the TDR500/3, rotate the main selector switch from the 'OFF' position to either 'AUTO' or the TDR measurement symbol.

To turn off the device, rotate the main selector switch to the 'OFF' position.

5.2 AUTO Selection Mode

The 'AUTO' mode simplifies operation by automatically setting the optimal range, pulse width, and gain for the cable under test. This is recommended for initial scans and general fault location.

1. Rotate the selector switch to 'AUTO'.
2. The TDR500/3 will automatically scan the cable and display the trace.
3. Use the directional pad to move the cursor along the trace to identify fault locations. The distance to the cursor position will be displayed on the screen.

5.3 Manual Settings (TDR Mode)

For advanced testing or specific cable types, you can manually adjust parameters in the TDR measurement mode.

1. Rotate the selector switch to the TDR measurement symbol.
2. Use the directional pad and control buttons to access and adjust settings such as:
 - **Velocity Factor (VF):** Adjust this value (0.2 to 0.99) to match the cable's dielectric constant for accurate distance measurements. The current VF is displayed on the screen (e.g., "UF=0.69").
 - **Output Impedance (Z):** Select from 25, 50, 75, or 100 Ohms to match the characteristic impedance of the cable. The current impedance is displayed (e.g., "Z=100Ω").
 - **Range:** Manually set the maximum display range (e.g., "100 m").
3. Observe the trace and use the cursor to pinpoint faults.

5.4 Trace HOLD Feature

Press the 'HOLD' button to freeze the current trace on the display. This is useful for comparing traces or for detailed analysis without the trace continuously updating. Press 'HOLD' again to resume live trace updates.

5.5 Display Adjustments

Use the control buttons below the LCD to adjust the display contrast and backlight intensity for optimal viewing in different lighting conditions.

6. MAINTENANCE

6.1 Cleaning

Wipe the instrument with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no moisture enters the device.

6.2 Storage

Store the TDR500/3 in a clean, dry environment within the specified operating temperature range. Protect it from dust, moisture, and extreme temperatures.

6.3 Calibration

Regular calibration by authorized service centers is recommended to ensure the continued accuracy and performance of the TDR500/3. Refer to Megger's official documentation or website for recommended calibration intervals.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	No AC power, faulty power adapter, or internal issue.	Check AC power connection. Ensure power adapter is functioning. If problem persists, contact Megger support.
Unclear or noisy trace.	Incorrect impedance setting, poor cable connection, or external interference.	Verify impedance setting matches cable. Ensure test leads are securely connected. Check for strong electromagnetic interference.
Incorrect distance readings.	Incorrect Velocity Factor (VF) setting.	Adjust the VF setting to match the known velocity factor of the cable under test. Refer to cable specifications.

Problem	Possible Cause	Solution
Display is too dim or too bright.	Display contrast or backlight settings are incorrect.	Adjust display contrast and backlight using the control buttons below the LCD.

For issues not listed here, or if solutions do not resolve the problem, please contact Megger customer support.

8. SPECIFICATIONS

Parameter	Value
Model Number	TDR500/3 (also 1002-227)
Resolution	0.1 m (0.3 ft)
Maximum Range	5 km (15,000 ft) (dependent on VF and cable type)
Output Impedances	25, 50, 75, 100 Ω
Velocity Factor (VF) Range	0.2 to 0.99
Display Type	Backlit Graphics Monochrome LCD (256 x 128 pixels)
Power Source	AC (external adapter)
Item Weight	3.65 pounds
Product Dimensions (L x W x H)	9.06 x 1.89 x 4.53 inches
Country of Origin	United Kingdom
Usage	Professional

9. WARRANTY AND SUPPORT

Megger products are designed for reliability and performance. For information regarding warranty coverage, technical support, service, or replacement parts, please contact Megger customer service or visit the official Megger website. Please have your product model number (TDR500/3) and serial number ready when contacting support. For the most up-to-date contact information, please visit: www.megger.com

Related Documents - TDR500/3

	Megger TDR500 User Guide: Time Domain Reflectometer Specifications and Operation Comprehensive user guide for the Megger TDR500 Time Domain Reflectometer, covering mechanical, environmental, and electrical specifications, cable velocity factors, safety warnings, and operational details.
	Megger TDR1000/3 Échomètre de Poing : Caractéristiques et Spécifications Techniques Découvrez le Megger TDR1000/3, un échomètre de poche portable et compact pour la localisation précise des défauts sur câbles métalliques. Idéal pour les techniciens, il offre une haute résolution, une large portée et des fonctionnalités intuitives comme le réglage AUTO et la fonction HOLD.

	Megger ADVANCED Range 5 kV, 10 kV, 15 kV Insulation Resistance Testers Explore the robust and reliable Megger ADVANCED range of 5 kV, 10 kV, and 15 kV Insulation Resistance Testers. Discover advanced features like RE>Act mode for enhanced accuracy, PI predictor for faster testing, and high voltage capabilities up to 30 TΩ. Designed for industrial applications, these testers offer superior safety (CAT IV rated) and intuitive operation for efficient electrical maintenance and testing.
	Megger TORCEL 900-series Battery Load Unit User's Manual This user manual provides comprehensive instructions for operating the Megger TORCEL 900-series battery load units. It covers product features, safety guidelines, testing procedures, menu system navigation, external current measurement, and optional equipment like TXL Extra Loads and BVM Battery Voltage Monitors, essential for industrial, substation, and data center applications.
	Megger MIT400/2 CAT IV Insulation Testers: Features, Specifications, and Applications Comprehensive datasheet for Megger MIT400/2 series CAT IV insulation and continuity testers. Details features, specifications, applications, safety, and model comparisons for electrical and industrial testing.
	Megger TORCEL 900-series User Guide: Battery Load Unit Operation and Specifications Comprehensive user guide for the Megger TORCEL 900-series Battery Load Units. Covers product description, features, safety instructions, operation, testing procedures, optional equipment like TXL Extra Loads and BVM, troubleshooting, and technical specifications.

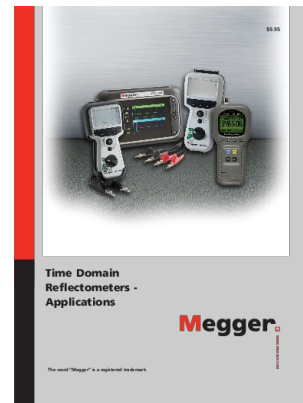
Documents - Megger – TDR500/3



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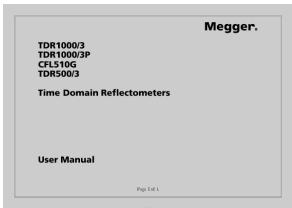
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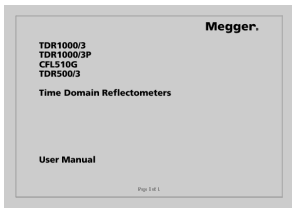


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measurement range Setup Manually select impedance pulse width gain VF mute contrast and distance units Page 14 Connection to C
Under Test Connect the test lead cable under may be made a live power system with voltage earth Locate start this reflection as desc
Operation section manual Adjust velocity factor until correct length is shown Note Megger instrumart assets

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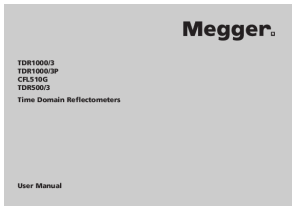
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Operation General testing procedure Operating modes Connection to cable under test Velo...

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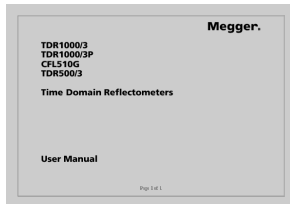


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Microsoft Word TDR1000 3 UG en V02 doc Marion Heard 3P CFL510G TDR500 Time Domain Manual adjustment of measurement r
Setup Manually select impedance pulse width gain VF mute contrast and distance units Page 14 Connection to Cable Under Test Coi
test lead cable under may be made a live power system with voltage earth bedienungsanleitung 556113 megger tdr5003
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TDR1000/3 TDR1000/3P CFL510G **TDR500/3** Time Domain Reflectometers M User Manual Page 1 of 1
CONTENTS Introduction

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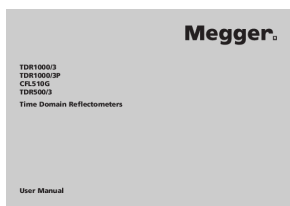
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TDR500/3 Handheld TDR **TDR500/3 Handheld TDR** Simple operation AUTO set up for instant use Ultra fast
for near end fault identification Trace HOLD feature IP54 rating offers real life working Designed for use on a
metallic cable pairs DESCRIPTION The **TDR500/3** is a hand held, compact ti...
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selectable steps in Manual operating mode Velocity Factor Variable from euro index nl files secured documents TDR1000 3P CFL51
TDR500 Time Domain Reflectometers adjustment of measurement 1 Adjust the position Cursor Setup Manually select impedance pul
gain VF mute contrast distance units 14 Connection to Cable Under Test Connect test lead under |||
TDR1000/3 TDR1000/3P CFL510G **TDR500/3** Time Domain Reflectometers User Manual CONTENTS Intro
Overview Instrument layout and display Controls Rotary switch Range and cursor control Backlight and hold
Operation General testing procedure Operating modes Connection to cable under test Velo...
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TDR500/3 Handheld TDR **TDR500/3 Handheld TDR** Simple operation AUTO set up for instant use Ultra fast pulse for near end fault identification Trace HOLD feature IP54 rating offers real life working Designed for use on a metallic cable pairs DESCRIPTION The **TDR500/3** is a hand held, compact ti... lang:en score:22 filesize: 111.25 K page_count: 2 document date: 2018-10-19



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TIME DOMAIN REFLECTOMETERS TDR Whether locating cable faults or testing the integrity of communic dering information on page 30. 28 Megger Products Catalog Specs subject to change without notice **TDR500** n Simple operation. n AUTO selection of gain and pulse width. n Ultra fast pulse for ne... lang:en score:22 filesize: 558.21 K page_count: 3 document date: 2016-07-12



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Time Domain Reflectometers Applications Instrument Depending on the nature of impedance change either all or part transmitted puls reflect back to TDR Figure 1 Reflectometer Megger Applicationsinstrument assets Megger srsItd

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TDR500/3 Echomtre de poing **TDR500/3** Echomtre de poing n Porte 5 km n Simplicit d utilisation n Rglage A toujours prt n Dtection des dfauts aux extrmits, grce l impulsion ultra-courte n Fonction HOLD n Etanchit IP5- Compatible avec toute paire tlphonique DESCRIPTION Le TDR1000/3 est un chomt...

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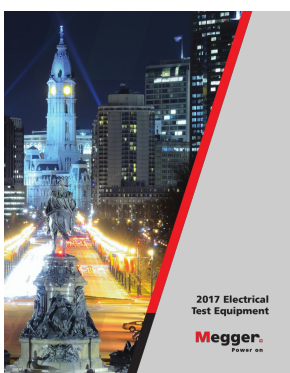
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