

Disk Drive Measurement Software

TDSDDM2 Data Sheet



- Track Profile Displays Measurements from Each Sector as a Function of Sector Number
- Online Help Text Provides Information About Each Measurement
- Part of a Complete Solution for Disk Drive Measurements from Tektronix - High-bandwidth Differential Probes, SMT Probes, Arbitrary Waveform Generators, etc.
- Offers Full Measurement Automation and Control through GPIB

Applications

- IDEMA Measurements Including TAA, PW50, Overwrite, Resolution, and Asymmetry
- PRML Measurements Including Auto-correlation NLTS and SNR

User-installed, Oscilloscope-resident Disk Drive Measurement Package

Design, manufacturing, and failure analysis engineers at disk drive companies; silicon vendors who design read-channel components; read/write head and media manufacturers - all desire to make measurements that are specific to their industry. Performing measurements on disk drive signals that comply with the IDEMA standards is crucial to meeting their objectives.

Tektronix offers a solution that provides custom disk drive measurements for the industry-leading TDS oscilloscopes. Peak detect measurements include track average amplitude positive (TAA+), track average amplitude negative (TAA-), track average amplitude total (TAA), 50% pulse width positive (PW50+), 50% pulse width negative (PW50-), 50% pulse width (PW50), overwrite, and resolution. Timing measurements include time - trough-to-peak, and time - peak-to-trough. PRML measurements include auto-correlation, nonlinear transition shift, and signal-to-noise ratio. Voltage and time asymmetry measurements are available for MR head designers. Measurement statistics are also available. Two programmable digital filters allow adjustable cutoff frequency, slope, and choice of high-pass or low-pass.

TDSDDM2 Disk Drive Measurement Software is a software package from Tektronix that delivers industry-specific disk drive measurements. It comes on a CD, easily installed into the oscilloscope, and doesn't require any external processing or connections. After installation, the application is accessible from the oscilloscope's touch screen or by using a mouse.

Features & Benefits

- Your DPO7000 and DPO/DSA70000 Series Oscilloscopes can Perform Disk Drive Measurements without External Equipment
- Installs Inside the Oscilloscope
- User-friendly Microsoft Windows GUI
- High-resolution Measurements can be Made on One Channel at the Highest Sample Rate with Trigger Input from Multiple Channels
- Comprehensive Statistical Measurements - Mean, Min, Max, Std Dev, SNR and More for Fast Characterization of Signals
- Snapshot Display of Multiple Parameters for Detailed Waveform Information
- SNR and NLTS Measurements Work for Signal-to-noise Ratios of 0 dB and Below
- Auto-configures Trigger Inputs for Index, Sector, and Read Channel for Easy Setup
- Programmable Digital Filters
- Thermal Asperity Information Provided for Quick Problem Detection

ASEAN / Australasia (65) 6356 3900

Austria +41 52 675 3777

Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777

Belgium 07 81 60166

Brazil +55 (11) 40669400

Canada 1 (800) 661-5625

Central East Europe, Ukraine, and the Baltics +41 52 675 3777

Central Europe & Greece +41 52 675 3777

Denmark +45 80 88 1401

Finland +41 52 675 3777

France +33 (0) 1 69 86 81 81

Germany +49 (221) 94 77 400

Hong Kong (852) 2585-6688

India (91) 80-42922600

Italy +39 (02) 25086 1

Japan 81 (3) 6714-3010

Luxembourg +44 (0) 1344 392400

Mexico, Central/South America & Caribbean 52 (55) 54247900

Middle East, Asia, and North Africa +41 52 675 3777

The Netherlands 090 02 021797

Norway 800 16098

People's Republic of China 86 (10) 6235 1230

Poland +41 52 675 3777

Portugal 80 08 12370

Republic of Korea 82 (2) 6917-5000

Russia & CIS +7 (495) 7484900

South Africa +27 11 206 8360

Spain (+34) 901 988 054

Sweden 020 08 80371

Switzerland +41 52 675 3777

Taiwan 886 (2) 2722-9622

United Kingdom & Ireland +44 (0) 1344 392400

USA 1 (800) 426-2200

For other areas contact Tektronix, Inc at: 1 (503) 627-7111

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Ordering Information

To Upgrade Your Existing DPO7000, DPO/DSA70000, TDS5000B, CSA7000B, or TDS7000B Series Oscilloscope

Series	Order
CSA7000B Series	CSA7BUP Opt. J2.
DPO/DSA70000 Series	DPO70UP Opt. J2
DPO7000 Series	DPO7UP Opt. J2
TDS5000B Series	TDS5BUP Opt. J2.
TDS7000 Series	TDS7UP Opt. J2.
TDS7000B Series	TDS7BUP Opt. J2.

Recommended Accessories

Accessory	Description
Arbitrary Waveform Generator	AWG7102 Arbitrary Waveform Generator.
High-bandwidth Differential Probe	P7330 3.5 GHz Differential Probe.

For Further Information. Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit www.tektronix.com



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