

Tektronix

TX3, TX1 True RMS Multimeters with Optional WSTRM PC Interface Package



You don't need to sacrifice ruggedness, safety, and quality to enjoy the accuracy and features needed in today's changing maintenance environment. The Tektronix TX-DMM™ True RMS multimeters feature an extra large, dual numeric display that provides more information in fewer steps and can be viewed from across the room.

The simple user interface eliminates guesswork and allows you to view AC and DC values without changing meter function, saving troubleshooting time.

The data storage capability allows measurements to be saved

into memory and later recalled or downloaded to a PC using the optionalWSTRM PC interface package.

WSTRM consists of WaveStar™ for Meters software and a PC interface cable.WSTRM provides virtual digital multimeter capability, real-time data logging, and easy documentation on a Windows®95/NT platform. Error free data recording is a necessity for successful preventive maintenance programs.

TX-DMM digital RMS technology provides high basic AC accuracy, 50,000 count resolution, and fast AC settling time.

Extra-Large, Dual Numeric Display with Backlight

1000V CAT III (IEC 61010 Compliant) Input Voltage Safety Rating

Built-in K-Type Digital Thermometer (TX3 only)

Diode Check and Continuity Beeper

Setup Menu for Custom User Defaults

Auto and Manual Hold and Ranging

MIN/MAX/AVG/MAX-MIN Recording with Time Stamp

Relative (Delta) Measurements dBm and dB (TX3 only)

4–20 mA Process Loop Measurement with % Readout (TX3 only)

Rugged Boot w/ Versa-Stand™

Traceable Calibration Certificate Included

Easy Battery Access without Breaking Calibration Seal

CE, UL, CSA Safety Certifications

TX3, TX1 True RMS Multimeters Characteristics

Display

Range – 50,000 and 5000 (selectable)
Digits – 4-4/5 and 3-4/5 (selectable)
Update Rate – 4/s (5000 count mode)
1/s (50,000 count mode)

20 Segment Analog Bar Graph

Update Rate – 20/s

Non-Volatile Memory

Locations – 30 (TX3); 10 (TX1)

Peak Hold

1 ms

DC/AC Voltage

Ranges* – 500.0 mV, 5.000 V, 50.00 V, 500.0 V, 1000 V CAT III
DC Accuracy* – $\pm(0.05\% + 1 \text{ ct.})$ (TX3)
 $\pm(0.07\% + 1 \text{ ct.})$ (TX1)
AC Accuracy* – $\pm(0.4\% + 2 \text{ ct.})$ (TX3)
 $\pm(0.6\% + 2 \text{ ct.})$ (TX1)
Best Resolution – 10 μV (50,000 ct. mode)

DC/AC Current

Ranges* – 500.0 μA , 5.000 mA, 50.00 mA, 500.0 mA, 5.000 A, 10.00 A (3 minutes)
DC Accuracy* – $\pm(0.2\% + 2 \text{ ct.})$
AC Accuracy* – $\pm(0.6\% + 2 \text{ ct.})$
Best Resolution – 10 nA (50,000 ct. mode)

Resistance

Ranges* – 50.00 Ω , 500.0 Ω , 5.000 k Ω , 50.00 k Ω , 500.0 k Ω , 5.000 M Ω , 50.00 M Ω
Accuracy* – $\pm(0.1\% + 2 \text{ ct.})$
Best Resolution – 0.01 Ω (in 50 Ω range w/ automatic lead calibration)

Capacitance

Ranges – 5.000 nF, 50.00 nF, 500.0 nF, 5.000 μF , 50.00 μF , 500.0 μF , 5.000 mF, 50.00 mF
Best Accuracy – $\pm(1.0\% + 3 \text{ ct.})$
Best Resolution – 1 pF

Frequency

Range – 0.5 Hz to 1 MHz
Accuracy – $\pm(0.002\% + 1 \text{ ct.})$
Best Resolution – 0.001 Hz
Counter – 5-digit; 100,000 count

Temperature (TX3 Only)

Built-in Digital Thermometer – K-Type Thermocouple
Range – -50°C to $+980^{\circ}\text{C}$ (not including thermocouple range)
Accuracy – $\pm 3^{\circ}\text{C}$ nominal
 $\pm 1^{\circ}\text{C}$ with quick ice bath calibration

Warranty

Three years

* Best accuracy stated. Ranges and accuracies are in 5000 ct. mode. Best resolution can be achieved by changing the default resolution to 50,000 ct. mode in the Setup menu.

WSTRM Optional PC Interface Package

WSTRM is the complete solution for data transfer and analysis from the TX-DMM multimeters to a PC. The WSTRM features WaveStar for Meters software and includes an interface cable.

WaveStar for Meters software allows users to easily capture, analyze, and record TX-DMM data, as well as professionally create, save, and print documents. Through its unique, virtual

instrument interface, WaveStar software enables remote access and control of the TX-DMM from a PC, without the need for programming. WaveStar software's familiar Windows®95/NT features, such as drag-and-drop, provide users a quick and simple means for inserting important DMM information into other Windows applications.

The included cable provides an interface between the TX-DMM IR port and the PC's RS-232 port.

Ordering Information

TX3 True RMS Multimeter

Includes: Boot with Stand, ATL01 Test Leads, ATK01 K-Type Thermocouple Adapter, ATP01 Thermocouple-to-Banana Plug Adapter, User Manual, 2 AA Batteries, Traceable Calibration Certificate

TX1 True RMS Multimeter

Includes: Boot with Stand, ATL01 Test Leads, User Manual, 2 AA Batteries, Traceable Calibration Certificate

User Manual Language Options

Options L0-L9 – English, French, Italian, German, Spanish, Japanese, Portuguese, Simple Chinese, Standard Chinese, Korean

Recommended Accessories

WSTRM – PC Interface Package with WaveStar for Meters Software and Interface Cable

A605 – 500 A AC Current Probe

A621 – 2000 A AC Current Probe

A622 – 100 A Current Probe

ATLDX1 – Deluxe Lead Set with Tip Accessories

ATL21 – Shielded Banana Plug Leads

ATL22 – Plug-on Test Lead Tips

ATL23 – Plug-on Sharp 'IC' Test Lead Tips

ATL25 – Adjustable Test Lead Set

ACL21 – Plug-on Safety Alligator Clips

ACL22 – Plug-on Hook-tip Clips

ACL23 – Plug-on Wire Clamp Clips

ACL24 – Plug-on Jaw Clips

AC12 – Large Nylon Soft Case



For further information, contact Tektronix:

World Wide Web: <http://www.tek.com>; **ASEAN Countries** (65) 356-3900; **Australia & New Zealand** 61 (2) 888-7066; **Austria, Eastern Europe, & Middle East** +43 2236 8092 0; **Belgium** +32 (2) 715.89.70; **Brazil and South America** 55 (11) 3741-8360; **Canada** 1 (800) 661-5625; **Denmark** +45 (44) 850 700; **Finland** +358 (9) 4783 400; **France & North Africa** +33 1 69 86 81 81; **Germany** +49 (221) 94 77 400; **Hong Kong** (852) 2585-6688; **India** (91) 80-2275577; **Italy** +39 (2) 25086 501; **Japan** (Sony/Tektronix Corporation) 81 (3) 3448-3111; **Mexico, Central America, & Caribbean** 52 (5) 666-6333; **The Netherlands** +31 23 56 95555; **Norway** +47 22 07 07 00; **People's Republic of China** 86 (10) 6235 1230; **Republic of Korea** 82 (2) 528-5299; **South Africa** (2711) 651-5222; **Spain & Portugal** +34 (1) 372 6000; **Sweden** +46 (8) 629 6503; **Switzerland** +41 (41) 729 36 40; **Taiwan** 886 (2) 722-9622; **United Kingdom & Eire** +44 (0) 1628 403400; **USA** 1 (800) 426-2200

From other areas, contact: Tektronix, Inc. Export Sales, P.O. Box 500, M/S 50-255, Beaverton, Oregon 97077-0001, USA 1 (503) 627-6877



Copyright © 1998, Tektronix, Inc. All rights reserved. Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specification and price change privileges reserved. TEKTRONIX and TEK are registered trademarks and TX-DMM and Versa-Stand are trademarks of Tektronix, Inc. All other tradenames are the service marks, trademarks, or registered trademarks of their respective companies.

Tektronix