Digital Multimeter
TekMeter® Series • THM 560 • THM 565

◩ Features

THM SERIES TekMeter

- True RMS Multimeter
- 2 Channel Autoranging Oscilloscope
- ΔV, ΔT, and 1/ΔT Cursors
- Automatic Measurements
- LCD Display (Backlit on THM 565)
- UL and CSA Certified to 600 V AC RMS or 850 V DC
- 6 kV Surge Protected
- Powered by Six Standard AA Batteries, Optional Replaceable NiCd Pack or AC adapter
- Weighs Only 2.2 lbs. (990 grams)
- Works with Standard DMM Probes and Accessories

Ⓐ Applications

- Test Power Quality
- Verify Logic Circuitry
- Test Motor Drives
- Examine Video Signals

TekMeter

THM Series TekMeter

The TekMeter Series combines the power of a true RMS digital multimeter and a dual-channel, 25 MS/s autoranging digital storage oscilloscope in one compact, simple-to-use, rugged, battery-powered unit. Designed for a wide variety of industrial applications, the TekMeter measures and displays signals from a few millivolts to several hundred volts. Its unique, autoranging scope tracks the signal and adjusts the instrument automatically. There's no need to be an expert scope user to get immediate results.

The simple interface allows access to numerous powerful and time-saving features, such as automatic measurements, capturing and time stamping AC-line faults, calculation of transformer harmonic derating factor (THDF), stable triggering on complex AC-motor drive signals, measuring true power, plus several other DMM and scope functions.

A UNIQUE MULTI-FUNCTION DISPLAY

Unlike a traditional DMM, the TekMeter's large display tells you everything you need to know about what you're measuring. In addition to the numerical and analog bar readout you're used to seeing on a DMM, the display shows Max, Min, Max-Min, Hold, and ΔHold all at once. You get more information about the signal, all on a single display.

Switch to the scope mode and TekMeter provides a waveform display similar to a traditional oscilloscope. The scope-mode display is autoranging, so it automatically scales and tracks as the signal changes, giving you hands-free operation. You can concentrate on the measurement, not the instrument, making measurements easier and faster.

LOTS OF POWER IN A SMALL PACKAGE

Even though the TekMeter easily fits in your hand, it packs more power and features than instruments many times its size. Its simple interface allows quick access to a host of features: cursors, automatic measurements, true power measurements, Power Factor, Transformer Harmonic Derating Factor (THDF), and spike detect – all of which will help you get to the source of your problem more quickly. TekMeter can do anything you're doing now, and more. You get measurable results that get the job done.

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KEY SPECIFICATIONS

	THM 560	THM 565
DIGITAL MULTIMETER		
Resolution	True RMS, 4,000 counts, 3 3/4 digits	True RMS, 4,000 counts, 3 3/4 digits
DC Voltage Ranges	400 mV to 850 V	400 mV to 850 V
DC Accuracy	±(0.5% of reading + 5 counts)	±(0.5% of reading + 5 counts)
AC Voltage Ranges	400 mV to 600 V, true RMS, crest factor of 3	400 mV to 600 V, true RMS, crest factor of 3
AC Bandwidth	1 Hz to 5 kHz	1 Hz to 5 kHz
AC Accuracy	±(2% of reading + 5 counts) @50 to 60 Hz	±(2% of reading + 5 counts) @50 to 60 Hz
	±(2% of reading + 5 counts) @500 Hz	±(2% of reading + 5 counts) @500 Hz
Resistance Ranges	400 Ω to 40 MΩ	400 Ω to 40 MΩ
Resistance Accuracy	±(0.5% of reading + 2 counts) all ranges except 40 MΩ which is ±(2% of reading + 5 counts)	±(0.5% of reading + 2 counts) all ranges except 40 MΩ which is ±(2% of reading + 5 counts)
DMM Measurements	Max, Min, Max-Min, Hold, ΔHold	Max, Min, Max-Min, Hold, ΔHold
Other DMM Features	Diode Tester, Continuity Tester, Current (with optional current probe)	Diode Tester, Continuity Tester, Current (with optional current probe)
AUTORANGING OSCILLOSCOPE		
Bandwidth	5 MHz	5 MHz
Sample Rate	25 MS/s	25 MS/s
Channels/Digitizers	2	2
Vertical Sensitivity	5 mV to 500 V/div	5 mV to 500 V/div
Resolution	8-Bits	8-Bits
Horizontal Time/Division Range	200 ns/div to 60 s/div	200 ns/div to 60 s/div
Record Lengths	256 points	256 points
Acquisition Modes	Sample, Spike Detect, Smooth, Roll, Dynamic Display DSP	Sample, Spike Detect, Smooth, Roll, Dynamic Display DSP
Automatic Measurements	Cursors (ΔV, ΔT, 1/ΔT), Frequency, Period, Max, Min, p-p	Cursors (ΔV, ΔT, 1/ΔT), Frequency, Period, Max, Min, p-p
Advanced Measurements	CH 1 + CH 2, CH 1 – CH 2, Current, Power, AC Line Test, THDF	CH 1 + CH 2, CH 1 – CH 2, Current, Power, AC Line Test, THDF, Motor Test
Memories	4 waveforms, 4 setups, 8 screens	8 waveforms, 8 setups, 1 screen

ORDERING INFORMATION

For price information: Outside the U.S. contact your local Tektronix representative, inside the U.S. see the price list in the back of this catalog.

TekMeter®
RMS Multimeter/Digital Storage Oscilloscope. Order THM 560/THM 565.
Includes: Test Leads, User Manual, Quick Reference Guide.

AVAILABLE ACCESSORIES
TXMDXPB – Deluxe Probe Set.
THM5SCA – Soft Case with Neck Strap.
THM5HCA – Transport Case.
THM5CHG – NiCd Battery Charger.
THM5BAT – NiCd Battery Pack.
THM5AC – AC Power Adapter.

THMCOM1
AC Adapter, DC Cigarette Lighter Adapter, RS-232 Interface, Cable, DocuWave™ Software, and Flip-out Stand.

A605 – 500 A AC Current Probe.
A621 – 2,000 A AC Current Probe.
A622 – 100 A AC/DC Current Probe.

SERVICE ASSURANCE OPTIONS
These products covered by the following service assurance options:

REP4100 – Provides one year of post-warranty Repair Protection.

CAL4100 – Provides one year of Calibration Services.

Product(s) available through your local Tektronix Distributor listed in the back of this catalog.

See Tektronix on the World Wide Web: http://www.tek.com

ISO 9001 *Tektronix Measurement products are manufactured in ISO registered facilities.*