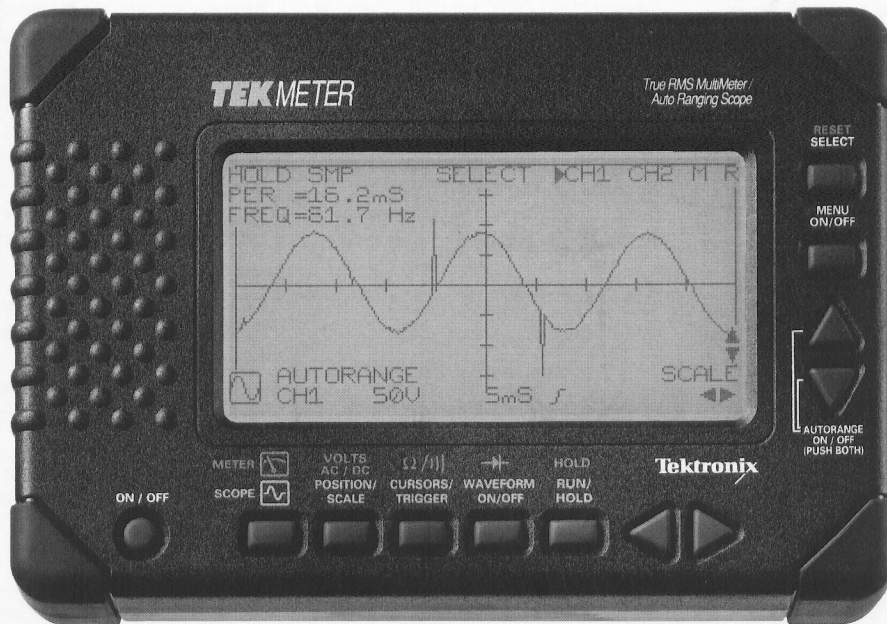


Tektronix

TekMeter™ 550/560/565 True RMS Multimeter with Autoranging Scope



**True RMS
multimeter and
autoranging
oscilloscope**

**Measures signals
from 5 μ V to 850V**

**Δ V, Δ T and 1/ Δ T
cursors**

**Automatic
measurements**

**Backlit LCD
display (565 only)**

**UL and CSA
certified to 600
VAC RMS or
850 VDC**

**6kV surge
protected**

**Powered by 6
standard AA
batteries**

**Weights only 2.2
lbs. (990 grams)**

**Works with all
standard DMM
probes and
accessories**

**One year
warranty**

What is it?

TekMeter combines the power of a true RMS multimeter and autoranging scope in one compact, handheld product. Its familiar DMM-like interface features a large numerical display so you can read signals in most environments.

Is it for you?

TekMeter was expressly designed for people who don't have time to become scope experts. If you are a plant or field technician involved in installation, repair, service, or maintenance, TekMeter is for you.

What makes TekMeter special?

Unlike a traditional DMM, TekMeter's large display gives 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, the display shows you Max, Min, Max-Min, Hold and Δ Hold all at once. You get more information about the signal.

Switch modes and TekMeter gives you a waveform display

like an oscilloscope. The scope is also autoranging, so it automatically scales and tracks as the signal changes, giving you hands-free operation.

So what makes it so powerful?

TekMeter's simple interface allows quick access to a host of features like cursors, automatic measurements, true power, Transformer Harmonic Derating Factor and spike detect—all of which will help you get to the source of your problem more quickly. Best of all, TekMeter uses Tektronix proprietary technologies to give you 50 times more information about your signal and ensure that you see the real signal all the time.

What else can it do?

TekMeter can do anything you're doing now, and more—test power quality, verify logic circuitry, test motor drives, examine video signals, you name it. You get measurable results that get the job done.

Multimeter Specifications	Resolution 3 3/4 digit—4000 counts multimeter DC - Voltage Range—400 mV to 850V Accuracy— \pm (0.5% of reading + 5 counts) Normal Mode Rej.— \rightarrow 60 dB at 50/60Hz AC - Voltage Range—All measurements are TRUE RMS, crest factor of 3, 400mV to 600V	Accuracy — \pm (2% of reading + 5 counts) Ω - Resistance Range—400 Ω to 40 M Ω Accuracy— \pm (0.5% of reading + 5 counts) except 40 M Ω range which is \pm (2% of reading + 5 counts) Diode Test Range—0 to 2 Volts.	Continuity Checker Indication —Audible tone and a graphic display. "CLOSED CIRCUIT" displayed when resistance is < 150 Ω . Multimeter Modes MIN, MAX, MAX-MIN —Records minimum, maximum and max-min. HOLD, ΔHOLD —HOLD captures current reading. Δ HOLD shows difference between HOLD reading and current reading.
	Operation Modes AutoRanging Oscilloscope —Sets the vertical scale, horizontal scale and stabilizes the waveform(s) on screen automatically. Line Test —Will monitor a 50 or 60 Hz line and capture abnormal events such as spikes, drop-outs and frequency variation. Time and date of anomaly is recorded and displayed on the screen. (565) Motor Test —Will stabilize (trigger) on Pulse Width Modulated signals generated by variable AC motor drives. (565) Single Shot —Will set up product to capture single events. Vertical Number of Channels —One channel (550), Two channels (560, 565) Bandwidth —DC to 5 MHz Volts/Division Range —5mV to 500V/div Max. input voltage — \pm (600V RMS + 6000V surge) between any inputs.	Mathematics Subtract (CH1 - CH2), Add (CH1 + CH2) (560, 565) Acquisition Number of Digitizers —One 8bit: 25MS/s digitizer (550); Two 8bit: 25MS/s digitizers (560, 565) Acquisition Modes —Sample (Normal), Spike Detect (40ns), Smooth, Dynamic display DSP, Roll (200 mS/div to 60 S/div) Horizontal Seconds/Division Range —60 S/div to 200 ns/div in a 1-2-5 sequence Record Length —256 points over 10 divs Measurements Cursors — Δ V: Voltage difference (or current); Δ T: Time (seconds) differences; 1/ Δ T: Reciprocal of Δ T (Hz) Voltage —Maximum, Minimum, Peak-to-Peak.	Timing —Period, Frequency Power —Calculates and reads out RMS Power, RMS Voltage and RMS Current (with current probe). (560, 565) THDF —Transformer Harmonic Derating Factor calculated (560, 565) Waveform Display Display Update Rate —Dynamic Display DSP: maps up to 500 waveforms/sec on screen, simulating analog-like display. Memories Setups —Each stores the complete state of the instrument: 4 setups (550, 560), 8 setups (565) Save Screens —Store screen: "What you see is what you save"; 1 screen (550, 560), 8 screens (565) Save Waveform —Store selected waveform data: 4 waveforms (550, 560), 8 waveforms (565)
General Specifications	Display System Size —Width 127 mm (5.0 in), Height 70mm (2.7 in) Backlight —Electroluminescent (565) Power Source Batteries —Six size AA cells (9 V nominal), and 5 hrs. typical battery life (with alkalines); battery saver shuts down automatically.	Environmentals Operating temperature —0 $^{\circ}$ C to +50 $^{\circ}$ C Emissions —FCC rules and regulations, 47 CFR, Part 15, Subpart B Class A; VFG 0243 (without probes attached).	Mechanical Size & Weight —Height:141mm (5.6 in), Width: 211mm (8.3 in), Depth: 43 mm (1.7 in), Wt: 1 kg (2.2 lbs) Safety Safety —6kV surge protected. Certified for UL 1244 and CSA.
	Ordering Information THM 550 True RMS Multimeter and single-channel autoranging scope. THM 560 True RMS Multimeter and two-channel autoranging scope. THM 565 Deluxe True RMS Multimeter and two-channel autoranging scope. Standard Accessories All TekMeter models include test leads, user manual and quick reference guide.	Optional Accessories TXMDXPB —Deluxe probe set THM5SCA —Soft case with neck strap THM5HCA —Transport case THMBAT —NiCad battery pack with recharger THMCOM1 —AC/DC adapter, RS-232 PC-link, software A605 —500 Amp AC current probe A621 —1,000 Amp AC current probe A622 —100 Amp AC/DC current probe	

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