

The 2465B, 2455B, and 2445B

The TEKTRONIX 2465B, 2455B, and 2445B portable oscilloscopes have four vertical channels with DC to 400 MHz, 250 MHz, and 150 MHz bandwidths. Deflection factors run from 2 mV to 5 V per division, in a 1-2-5 sequence, with either 1 M Ω or 50 Ω input resistance, in channels 1 and 2. Either AC or DC input coupling is available at 1 M Ω . Channels 3 and 4 give 0.1 V or 0.5 V per division, with 1 M Ω input resistance, and DC coupling. With the standard 10X probes, channels 1 and 2 display 20 mV to 50 V/division and channels 3 and 4 display 1 V or 5 V/division.

The trigger systems work automatically for most signals. They operate in various modes, from any channel, with couplings for a wide range of signals. The 2445B triggers from DC to 250 MHz. The 2455B and 2465B trigger from DC to 500 MHz.

Sweep speeds range from 1.5 s to 1 ns per division on the 2445B and 2455B and to 500 ps per division on the 2465B, including the effects of the X10 magnifier and the calibrated variable between 1-2-5 steps. Horizontal displays include A-Sweep, B-Sweep (delayed), A alternated with B, and CH 1 (for X/Y displays).

The SETUP features, AUTO, SAVE, and RECALL, save time and prevent errors, whether you are a novice operator or a master. AUTO Setup works with almost any signal. For repeating measurements, the Save and Recall functions record and restore as many as 30 instrument setups, including the extended-function options. Setups can be recalled either immediately or sequentially.

Digital readouts of time, voltage, scale factors, trigger levels, and auxiliary information also save time and reduce errors.

With Parametric Measurements, common measurements such as frequency, period, amplitude, pulse width, duty factor, rise time, fall time, and propagation delay can be made automatically. Each measurement activation displays the results in the CRT readout. Measurement results remain on-screen until any other button is pressed.

With the available Counter/Timer/Trigger (*CTT*), Option 06 or Option 09, measurements require even less effort and give better accuracy. The *CTT* increases trigger selectivity, especially in digital systems. Option 09 includes the *CTT* and a 17-bit Word Recognizer (*WR*). The available Television/Video (*TV*) enhancement, Option 05, can trigger at any desired point in a frame and it can reduce the effects of ac coupling and hum in a video signal. The available Digital Multimeter (*DMM*) measures dc voltage, dc current, ac rms voltage, ac rms current, resistance, and temperature with floating inputs.

The *WR* adds a Word Recognizer Probe connector on the rear panel. The *TV* enhancement adds LINES, FLD1, and FLD2 Trigger Coupling.

The available GPIB interface accesses all controls and digital readings. The interface adds GPIB status indicators, just above the CRT. See the *24X5B/2467B GPIB (Option 10) Instrument Interfacing Guide* for information on integrating the instrument into a GPIB system.

The 2465B CT includes *CTT* and *WR* (Option 09) and *GPIB* (Option 10). The 2465B DM adds *DMM* (Option 01) and also includes *CTT* and *WR* (Option 09) and *GPIB* (Option 10). The 2465B DV adds *TV* (Option 05) to the features of the 2465B DM.

Illustrations at the back of the manual show the instrument front and rear panels.