

SPECIFICATION

INTRODUCTION

The TEKTRONIX 2465B and 2467B Oscilloscopes are portable 400-MHz bandwidth instruments having four-channel vertical deflection systems. Channel 1 and Channel 2 provide calibrated deflection factors from 2 mV per division to 5 V per division. For each of these channels, input impedance is selectable between two values: either 1 M Ω in parallel with 15 pF, or 50 Ω internal termination. Input-signal coupling with 1 M Ω impedance can be selected as either AC or DC. Channel 3 and Channel 4 have deflection factors of either 0.1 V or 0.5 V per division. Each of these channels has an input impedance of 1 M Ω in parallel with 15 pF, with DC input-signal coupling.

The trigger system works automatically for most signals. They operate in various modes, from any channel, with couplings for a wide range of signals. The trigger system gives stable displays from dc to 500 MHz.

The horizontal deflection system provides calibrated sweep speeds from 1.5 s per division to 500 ps per division, including the effects of the X10 magnifier and the calibrated variable between the 1-2-5 steps. Horizontal displays include A-Sweep, B-Sweep (delayed), A alternated with B, and CH 1 (for X/Y displays).

The AUTO, SAVE, and RECALL features save time and prevent errors. Pressing the AUTO Setup button gives a workable setup for almost any signal. For repetitive measurements, the Save and Recall functions record and immediately or sequentially restore as many as 30 instrument setups. The SETUP buttons operate all instrument functions, including the extended function options.

Direct, on-screen readouts of time measurements, voltage measurements, scale factors, trigger levels, and auxiliary information also save time and improve operator confidence.

The 2467B yields 4 divisions/ns visual writing rate. This is about 100 times faster than conventional, high-performance oscilloscopes. The 2467B visibly displays any signal, at any repetition-rate, at any sweep speed, in typical room light. Visible single-shots include 1 ns steps at 500 ps/division.

The instruments are shipped with the following standard accessories:

- 2 Probe packages (2465B)
- 4 Probe packages (2467B)
- 1 Snap-lock accessories pouch
- 1 Zip-lock accessories pouch
- 1 Operators manual
- 1 Power cord (installed)
- 1 2-A, 250-V fuse
- 1 Clear plastic CRT filter
- 1 Blue plastic CRT filter (installed)
- 1 Front-panel cover
- 1 Operators pocket reference card

For part numbers and further information about both standard and optional accessories, refer to "Options and Accessories" (Section 7) of the instruments Operators manual or the Accessories information at the rear of this manual. Your Tektronix representative or local Tektronix Field Office can also provide accessories information and ordering assistance.

PERFORMANCE CONDITIONS

The following electrical characteristics (Table 1-1) are valid for the instrument when it has been adjusted at an ambient temperature between +20°C and +30°C, has had a warm-up period of at least 20 minutes, and is operating at an ambient temperature between -15°C and +55°C (unless otherwise noted).

Items listed in the "Performance Requirements" column define the measurement capabilities of the instruments. Supplementary measurement conditions may also be listed in the "Performance Requirement" column.

Mechanical characteristics are listed in Tables 1-6 and 1-7.

Environmental characteristics are given in Table 1-8. The oscilloscope meets the environmental requirements of MIL-T-28800C for Type III, Class 3, Style C equipment, with the humidity and temperature requirements defined in paragraphs 3.9.2.2, 3.9.2.3, and 3.9.2.4.