

494A/494AP SPECTRUM ANALYZER

Please Check for CHANGE INFORMATION at the Rear of This Manual

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Tektronix
COMMITTED TO EXCELLENCE

PREFACE

This manual is one of a set of product manuals for the TEKTRONIX 494A and programmable 494AP Spectrum Analyzer. The manual describes the instrument installation and operation. These instructions assume a thorough knowledge of frequency domain analysis. The purpose of this manual is to explain the operation of the 494A so that measurements will be meaningful whether made under adverse or laboratory conditions. The manual organization is shown in the Table of Contents. The manuals that are available now in addition to this Operators Manual are the

- 494A/494AP Service Manuals, Volume 1 and 2 (optional accessories),
- 494AP Programmers Manual (standard accessory for programmable instrument only),
- 494A/494AP Operators Handbook (optional accessory), and
- Programmers Reference Guide (covering the 494AP and 495P Option 05)

For manual ordering information, contact your local Tektronix Field Office or representative or refer to the Accessories portion of the Replaceable Mechanical Parts list in the Service Manual, Volume 2.

Standards and Conventions Used

Most terminology is consistent with standards adapted by IEEE and IEC. A glossary of terms is provided in Appendix A. Abbreviations in the manuals are consistent with ANSI Y1.1-1972. GPIB functions conform to the IEEE 488-1978 Standard. Copies of ANSI and IEEE standards can be ordered from the Institute of Electrical and Electronic Engineers Inc.

Change/History Information

Any change information that involves manual corrections or additional information is located behind the tabbed Change Information page at the back of this manual.

History information, as well as the updated data, is combined within this manual when the page(s) is revised. A revised page is identified by a revision date located in the lower inside corner of the page.

Unpacking and Initial Inspection

Instructions for unpacking and preparing the instrument for use are described in Section 5.

Storage and Repackaging

Instructions for short- and long-term storage and instrument repackaging for shipment are described in Section 3.

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SAFETY SUMMARY

(Refer all servicing to qualified servicing personnel)

The safety information in this summary is for both operating and servicing personnel. Specific warnings and cautions will be found throughout the manual where they apply, but may not appear in this summary.

CONFORMANCE TO INDUSTRY STANDARDS

This instrument complies with the following Industry Safety Standards and Regulatory Requirements.

Safety

CSA: Electrical Bulletin

FM: Electrical Utilization Standard Class 3820

ANSI C39.5 — Safety Requirements for Electrical and Electronic Measuring and Controlling Instrumentation.

IEC 348 (2nd edition) — Safety Requirements for Electronic Measuring Apparatus.

Regulatory Requirements

VDE 0871 Class B — Regulations for RFI Suppression of High Frequency Apparatus and Installations.

TERMS

In This Manual

CAUTION statements identify conditions or practices that could result in damage to the equipment or other property.

WARNING statements identify conditions or practices that could result in personal injury or loss of life.

As Marked on Equipment

CAUTION indicates a personal injury hazard not immediately accessible as one reads the marking, or a hazard to property, including the equipment itself.

DANGER indicates a personal injury hazard immediately accessible as one reads the marking.

SYMBOLS

In This Manual



This symbol indicates where applicable cautionary or other information is to be found.

As Marked on Equipment



DANGER — High voltage.



Protective ground (earth) terminal.



ATTENTION — refer to manual.



Refer to manual

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