

495/495P SPECTRUM ANALYZER

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Please Check for CHANGE INFORMATION at the Rear of This Manual

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PREFACE

This manual is one of a set of product manuals for the TEKTRONIX 495 and programmable 495P 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 spectrum analyzer 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

- 495/495P Service Manuals, Volume 1 and 2 (standard accessories) and
- 495P Programmers Manual (standard accessory for 495P only).

There will be two additional publications available shortly; 495/495P Operators Handbook (optional accessory), and a Programmers Reference Guide. 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 documentation 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 3.

Storage and Repackaging

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

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POWER

Power Source

This product is intended to operate from a power source that will not apply more than 250 V rms between the supply conductors or between either supply conductor and ground. A protective ground connection by way of the grounding conductor in the power cord is essential for safe operation.

Grounding the Product

This product is grounded through the grounding conductor of the power cord. To avoid electrical shock, plug the power cord into a properly wired receptacle before connecting it to the product input or output terminals. A protective ground connection by way of the grounding conductor in the power cord is essential for safe operation.

Danger From Loss of Ground

Upon loss of the protective-ground connection, all accessible conductive parts (including knobs and controls that may appear to be insulating) can render an electric shock.

Use the Proper Power Cord

Use only the power cord and connector specified for your product.

Use only a power cord that is in good condition.

Refer cord and connector changes to qualified service personnel.

For detailed information on power cords and connectors, see the Maintenance section in the Service Manual, Volume 1.

Use the Proper Fuse

To avoid fire hazard or equipment damage, use only the fuse of correct type, voltage rating, and current rating for your product (as specified in the Replaceable Electrical Parts list in Volume 2 of the Service Manual). Refer fuse replacement to qualified service personnel.

OPERATIONAL PRECAUTIONS

Do Not Operate in Explosive Atmospheres

To avoid explosion, do not operate this product in an explosive atmosphere unless it has been specifically certified for such operation.

Do Not Remove Covers or Panels

To avoid personal injury, do not remove the product covers or panels unless you are qualified to do so. Do not operate the product without the covers and panels properly installed.

Dangerous voltages exist at several points in this product. To avoid personal injury, do not touch exposed connections and components while power is on. REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL