2 GHz Digitizing Oscilloscope

PM3340

Operating Manual

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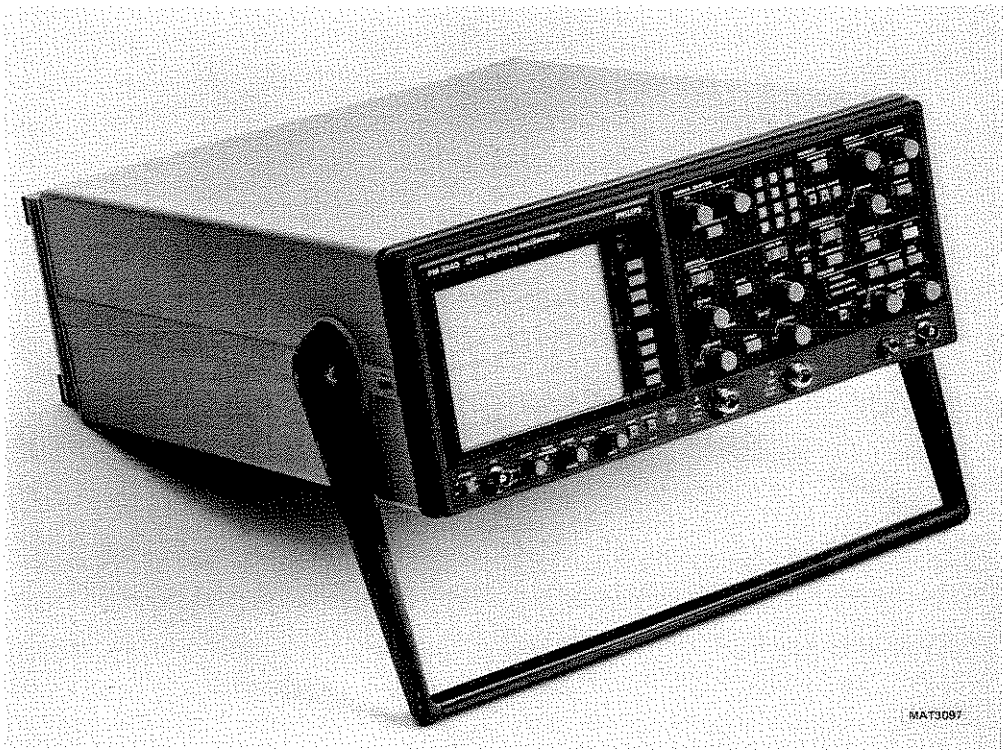

PHILIPS

PHILIPS

ARRANGEMENT OF MANUAL

This Operating Manual is arranged in such a way that the essential information on safety and operating procedures is immediately available in the first chapters.

You are strongly advised to read Section 3.2. SAFETY INSTRUCTIONS thoroughly before installing your oscilloscope.

Operating information is given in the remainder of Chapter 4.

Complete information for preventive maintenance on the instrument can be found in Chapter 5. This is followed by details of the functional, mechanical and environmental data, listed in Chapter 6, Characteristics.

Finally, additional information regarding the various versions of the instrument and accessories is given in Chapter 7, and Chapter 8. respectively.

CONTENTS

LIST OF FIGURES

1.0 OPERATORS SAFETY

Read this page carefully before installation and use of the instrument.

1.1 INTRODUCTION

The instrument described in this manual is designed to be used by properly-trained personnel only. Adjustment, maintenance and repair of the exposed equipment shall be carried out only by qualified personnel.

1.2 SAFETY PRECAUTIONS

For the correct and safe use of this instrument it is essential that both operating and service personnel follow generally-accepted safety procedures in addition to the safety precautions specified in this manual. Specific warning and caution statements, where they apply, will be found throughout the manual. Where necessary, the warning and caution statements and/or symbols are marked on the apparatus.

1.3 CAUTION AND WARNING STATEMENTS

CAUTION: is used to indicate correct operating or maintenance procedures in order to prevent damage to or destruction of the equipment or other property.

WARNING: calls attention to a potential danger that requires correct procedures or practices in order to prevent personnel injury.

1.4 SYMBOLS

Read the operating instructions.

1.5 IMPAIRED SAFETY PROTECTION

Whenever it is likely that safety-protection has been impaired, the instrument must be made inoperative and be secured against any unintended operation. The matter should then be referred to qualified technicians. Safety protection is likely to be impaired if, for example, the instrument fails to perform the intended measurements or shows visible damage.

2.0 INTRODUCTION

This compact dual channel digitizing storage oscilloscope features sampling techniques that allow display of signals with a frequency up to 2 GHz. The sampling system can work in normal and in high resolution eye pattern mode. The instrument is extremely easy to use because of the AUTO-SET pushbutton, that automatically adjusts the controls to suit the input signal value.
The brightness is independent of the time base settings. The M68000 microprocessor gives a wide choise of measurement and display possibilities, which can be selected via the ergonomic designed front panel.

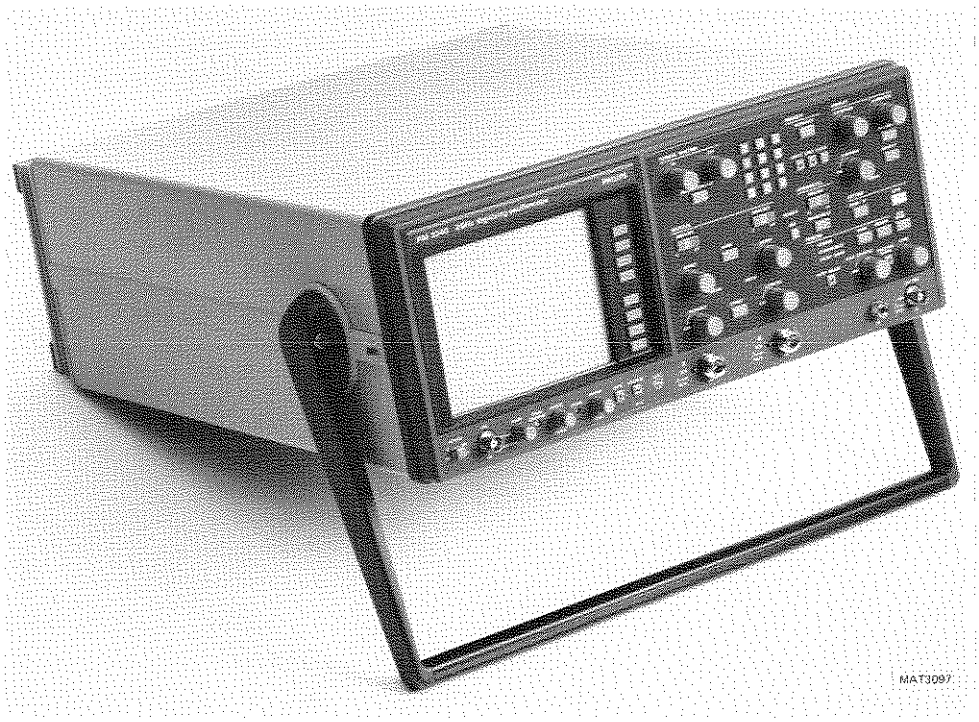

Figure 2.1 2 GHz digizing oscilloscope.

The oscilloscope is provided with integrated circuits (including thin-film circuits), which guarantee a highly stable operation.

Furthermore, connection to the local mains is simplified by a tapless switched-mode power supply that covers most voltage ranges in use: 90 V...264 V a.c.

All these features make this oscilloscope suitable for a wide range of high-frequency measuring applications such as in telecommunication, component testing and development and in fast computers.