# Agilent B1500a Programming Guide

B1510A Agilent Sourcemeter Used-Valuetronics Agilent B1500A Self paced Training Manual Keysight Technologies B1500A Semiconductor Device Analyzer B1505A Keysight Agilent Curve Tracer-Valuetronics AGILENT TECHNOLOGIES Page 1/26

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<u>B1510A Agilent Sourcemeter Used - Valuetronics</u>

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Keysight Technologies B1500A

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Semiconductor Device Analyzer This operation manual covers a sample V-Ramp program running on Agilent 4155/4156, and how to use and customize the program. The program is written in the Instrument BASIC (IBASIC), and is ready to run on the built-in IBASIC controller of the 4155/4156. "Theory of V-Ramp Test Procedure" describes basic

theory, procedure, and terminology of

<u>B1505A Keysight Agilent Curve Tracer - Valuetronics</u>

The Keysight B1500A (Agilent)
Semiconductor Device Analyzer is a
modular instrument with a ten-slot
configuration that supports both IV and
CV measurements and also fast high-

voltage pulsing. Its familiar, Microsoft ® Windows ® user interface supports Agilent's EasyEXPERT software, which provides a new, more intuitive task-oriented approach to device characterization.

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For B1500A Users Agilent B1500A supports the following measurement resources. For reading this manual, ignore the information about the other resources. • HPSMU High power source/monitor unit (B1510A) • MPSMU Medium power source/monitor unit (B1511A/B1511B) • MCSMU Medium current source/monitor unit (B1514A)

B1500A Semiconductor Device
Parameter Analyzer ...
1-2 Keysight B1530A User's Guide,
Edition 7 Introduction This chapter
introduces Keysight B1530A waveform
generator/fast measurement unit
(WGFMU) which is a plug-in module for
the Keysight B1500A Semiconductor

Device Analyzer and Keysight B1531A remote-sense and switch unit (RSU) which

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Waveform Generator/ Fast ...
these precautions or with specific
warnings elsewhere in this manual may
impair the protections provided by the
instrument. In addition, it violates safety

standards of design, manufacture, and intended use of the instrument. Keysight Technologies assumes no liability for customer's failure to comply with these requirements.

<u>fullertonlab.pitt.edu</u> Keysight B1500A Semiconductor Device Analyzer of Precision Current-Voltage

Analyzer Series is an all in one analyzer supporting IV, CV, pulse/dynamic IV and more, which is designed for all-round characterization from basic to cutting-edge applications.

<u>Keysight Technologies B1500A</u> <u>Semiconductor Device Analyzer</u> The Agilent B1510A Source/Measure

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Units (SMUs) are the key measurement modules of B1500A Semiconductor Device Parameter Analyzer. The SMUs integrate voltage/current source and measurement capabilities into a module, and it enables accurate DC current-voltage (IV) measurement with down to fA /  $\mu$ V resolution.

Agilent 34401A 6 ½ Digit Multimeter
The B1500A also provides an intuitive graphical user interface, touch screen LCD panel, keyboard, and mouse for easy and effective measurement and analysis on the Windows environment.

<u>Agilent 4155C Agilent 4156C - Oregon</u> <u>State University</u>

The B1500A also provides an intuitive graphical user interface, touch screen LCD panel, keyboard, and mouse for easy and effective measurement and analysis on the Windows environment.

<u>Keysight B1500A Semiconductor Device</u> <u>Analyzer</u>

In This Manual This document is the self-

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paced training manual to help you to understand what is Agilent B1500A, what functions the B1500A has, how to use the B1500A, and what applications the B1500A contributes to. CAUTION The test setup data described in this manual are only examples. If these example data

Agilent B1500A Programming Guide -**Keysight** Agilent Technologies B1500A User Manual. Semiconductor device analyzer. ... Examples for C++ Users **Programming Basics Programming** Basics This section provides the basic information for programming using the Agilent B1500 VXIplug&play driver. • "To

Create Your Project Template" • "To Create Measurement Program" To Create Your ...

Agilent B1500a Programming Guide
Agilent B1500 Programming Guide,
Edition 2 1-3 Programming Basics Before
Starting Before Starting Before starting

the programming using the Agilent FLEX command, perform following. 1. If the EasyEXPERT software is running, terminate it as shown below: a. Select the menu function File > Exit on the EasyEXPERT main window. b.

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#### Agilent B1500A Semiconductor Device Analyzer

The Keysight Agilent B1505A Power Device Analyzer / Curve Tracer has the capability to characterize high power devices from the sub-picoamp level up

to 10 kV and 1500 A. These capabilities allow evaluation of novel new device such as IGBT and materials such as GaN and SiC.

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