Security Features and Volatility Documentation

Agilent Technologies, Inc. 85037A/B Precision Detectors



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Assistance with test and measurements needs and information on finding a local Agilent office is available on the internet at, <u>http://www.agilent.com/find/assist</u>. If you do not have access to the internet, please contact your field engineer.

Note: In any correspondence or telephone conversation, refer to the product by its model number and full serial number. With this information, the Agilent representative can determine whether your unit is still within its warranty period.

Product Declassification and Security

Model Number(s): 85037A, 85037B Product Name: Precision Detectors Product Family Name: Detectors Alternate Product Numbers: N/A

Introduction

This document describes instrument security features and the steps to declassify an instrument through memory sanitization or removal. For additional information please go to http://www.agilent.com/find/ad and click on the security instrument tab.

• 85037A/B Operating and Service Manual (85037-90121).

Contents

Introduction	.4
Terms and Definitions	. 5
System Components	. 6
Instrument Memory and Volatility Information	. 7
Memory Clearing, Sanitization and/or Removal Procedures	. 8
User and Remote Interface Security Measures	. 9
Procedure for Declassifying a Faulty Instrument	10

Terms and Definitions

Definitions:

Clearing – Clearing is the process of eradicating the data on media before reusing the media so that the data can no longer be retrieved using the standard interfaces on the instrument. Clearing is typically used when the instrument is to remain in an environment with an acceptable level of protection.

Sanitization – Sanitization is the process of removing or eradicating stored data so that the data cannot be recovered using any known technology. Instrument sanitization is typically required when an instrument is moved from a secure to a non-secure environment such as when it is returned to the factory for calibration. (The instrument is declassified) Agilent memory sanitization procedures are designed for customers who need to meet the requirements specified by the US Defense Security Service (DSS). These requirements are outlined in the "Clearing and Sanitization Matrix" issued by the Cognizant Security Agency (CSA) and referenced in National Industrial Security Program Operating Manual (NISPOM) DoD 5220.22M ISL 01L-1 section 8-301.

Security erase – Security erase is a term that is used to refer to either the clearing or sanitization features of Agilent instruments.

Instrument declassification – A term that refers to procedures that must be undertaken before an instrument can be removed from a secure environment such as is the case when the instrument is returned for calibration. Declassification procedures will include memory sanitization and or memory removal. Agilent declassification procedures are designed to meet the requirements specified by the DSS NISPOM security document (DoD 5220.22M chapter 8)

System Components

Model number	Name	Description	Reference/Remarks
85037A	Detectors	Precision Detectors, 10 MHz to 18 GHz	Non volatile memory on PCA
			board
85037B	Detectors	Precision Detectors, 10 MHz to 26.5 GHz	Non volatile memory on PCA
			board

Product/System includes the following components

< This section should only be completed if the product is a system, otherwise remove it. The table should include a list of the system components with a remark and reference to the security information for that component. Other sections of this document may not be needed if all the security requirements for this system are covered through referencing its component's security procedures. >

Instrument Memory and Volatility Information

This section contains information on the types of memory available in your instrument. It explains the size of memory, how it is used, its location, volatility, and the sanitization procedure.

Summary of instrument memory - base instrument

Memory Type and Size	Is Memory user accessible as a mass storage device?	Writable During Normal Operation?	Data Retained When Powered Off?	Purpose/Contents	Data Input Method	Location in Instrument and Remarks	Sanitization Procedure
16K EEPROM	No	Yes	Yes	Factory calibration / configuration data	Factory default setting	Printed circuit board assembly	Not writable by the customer

Memory Clearing, Sanitization and/or Removal Procedures

This section explains how to clear, sanitize, and remove memory from you instrument for all memory that can be written to during normal operation and for which the clearing and sanitization procedure is more than trivial such as rebooting your instrument.

16K EEPROM

Description and	Main memory flash used to store factory calibration and configuration data
purpose	
Size	16 K
Memory clearing	Not writable by the customer
Memory sanitization	N/A
Memory removal	This memory can not be removed without damaging the instrument
Write protecting	N/A
Memory validation	N/A
Remarks	

User and Remote Interface Security Measures

Not Applicable

Procedure for Declassifying a Faulty Instrument

This is an accessory to use together with the 8757D instrument. The precision detectors' EEPROM is not user writable, but only contain factory original configuration setting. It is safe to send back to factory for repair. Alternatively, user can discard and destroy it.