

**TF-TekProtect  
Health Checker  
Declassification and Security Instructions**





# **TF-TekProtect Health Checker Declassification and Security Instructions**

## **Warning**

The servicing instructions are for use by qualified personnel only. To avoid personal injury, do not perform any servicing unless you are qualified to do so. Refer to all safety summaries prior to performing service.

Supports TF-TekProtect Product Firmware V1.0 and above.

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- Worldwide, visit [www.tektronix.com](http://www.tektronix.com) to find contacts in your area.

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# Preface

This document helps customers with data security concerns to sanitize or remove memory devices from the Tektronix TF-TekProtect Health Checker.

These products have data storage (memory) devices. These instructions tell how to clear or sanitize the memory devices. The instructions also tell how to declassify an instrument that is not functioning.

## Reference

The procedures in this document are written to meet the requirements specified in:

- NISPOM, DoD 5220.22–M, Chapter 8
- ISFO Process Manual for Certification & Accreditation of Classified Systems under NISPOM

## Products

The following Tektronix products are covered by this document:

- Tektronix TF-TekProtect Health Checker

## Required documents

To perform the procedures in this document, you will need to have access to the Tektronix TF-TekProtect Health Checker manuals listed below. These manuals are available on the Tektronix Web site at [www.tektronix.com/downloads](http://www.tektronix.com/downloads).

- Tektronix TF-TekProtect Health Checker User manual 071-3376-xx.

## Terms used in this document

The following terms may be used in this document:

- **Clear.** This removes data on media/memory before reusing it in a secured area. All reusable memory is cleared to deny access to previously stored information by standard means of access.
- **Erase.** This is equivalent to clear.
- **Instrument Declassification.** A term that refers to procedures that must be undertaken before an instrument can be removed from a secure environment. Declassification procedures include memory sanitization and memory removal, and sometimes both.
- **Media storage/data export device.** Any of several devices that can be used to store or export data from the instrument, such as a USB port.
- **Nonvolatile memory.** Data is retained when the instrument is powered off.
- **Power off.** Some instruments have a “Standby” mode, in which power is still supplied to the instrument. For the purpose of clearing data, putting the instrument in Standby mode does not qualify as powering off. For these products, you will need to either press a rear-panel OFF switch or remove the power source from the instrument.
- **Remove.** This is a physical means to clear the data by removing the memory device from the instrument. Instructions are available in the product Service Manual.

- **Sanitize.** This eradicates the data from media/memory so that the data cannot be recovered by other means or technology. This is typically used when the device will be moved (temporarily or permanently) from a secured area to a non-secured area.
- **Scrub.** This is equivalent to sanitize.
- **User Accessible.** User is able to directly retrieve the memory device contents.
- **User-modifiable.** User can write to the memory device during normal instrument operation, using the instrument interface or remote control.
- **Volatile memory.** Data is lost when the instrument is powered off.

## Device terms

The following terms are used with the memory devices in this document:

- **User data.** Describes the type of information stored in the device. Refers to waveforms or other measurement data representing signals connected to the instrument by users.
- **User settings.** Describes the type of information stored in the device. Refers to instrument settings that can be changed by the user.
- **Both.** Describes the type of information stored in the device. It means that both user data and user settings are stored in the device.
- **None.** Describes the type of information stored in the device. It means that neither user data nor user settings are stored in the device.
- **Directly.** Describes how data is modified. It means that the user can modify the data.
- **Indirectly.** Describes how data is modified. It means that the instrument system resources modify the data and that the user cannot modify the data.



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# Clear and sanitize procedures

## Memory devices

The following tables list the volatile and nonvolatile memory devices in the instrument.

## Terminology

The following terms are used in the tables in this section:

- User data – Describes the type of information stored in the device. Refers to waveforms or other measurement data representing signals connected to the instrument by users.
- User settings – Describes the type of information stored in the device. Refers to instrument settings that can be changed by the user.
- Both – Describes the type of information stored in the device. It means that both user data and user settings are stored in the device.
- None – Describes the type of information stored in the device. It means that neither user data or user settings are stored in the device.
- Directly – Describes how data is modified. It means that the user can modify the data.
- Indirectly – Describes how data is modified. It means that the instrument system resources modifies the data and that the user cannot modify the data.

**Table 1: Volatile memory devices**

Type and minimum size	Function	Type of user info stored	Backed-up by battery	Method of modification	Data input method	Location	User accessible	To clear	To sanitize
SDRAM, 8 kB	Microprocessor system memory	80A09 and TekProtect voltage measurements	No	Indirectly	Written by software	Board MCU	No	Remove power from the Health Checker for at least 10 seconds	Remove power from the Health Checker for at least 10 seconds

**Table 2: Nonvolatile memory devices**

Type and minimum size	Function	Type of user info stored	Method of modification	Data input method	Location	User accessible	To clear	To sanitize
Flash memory 64 Megabits	Microprocess or program	None	None	Factory configuration	Board MCU	No	Not applicable, does not contain user data or settings. Clearing would disable instrument functionality	Not applicable, does not contain user data or settings. Sanitizing would disable instrument functionality.

## Media and data export devices

This instrument does not have any media or data export devices.

## Disabling USB capability

This instrument receives power from the USB cable. It has no other USB capability.

## How to clear or sanitize a Non-Functional instrument

This instrument erases all test data immediately before initiation of a test and upon completion of product testing. Removing power (disconnecting the USB cable) from the instrument for at least 10 seconds will clear and sanitize the instrument.

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## Change log

Document part number	Revision date	Change description
077-3376-00	November 2014	Initial release.

