

**80A07 Electrical Clock Recovery Instrument
Declassification and Security
Instructions**

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Preface

This document helps customers with data security concerns to sanitize or remove memory devices from the 80A07 Electrical Clock Recovery Instrument.

This product has data storage (memory) devices and data output devices (USB ports). These instructions tell how to clear or sanitize the memory devices. The instructions also tell how to declassify an instrument that is not functioning.

Products The following Tektronix products are covered by this document:

- 80A07 BERTScope CR

Terms 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.
- **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-modifiable.** The 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.

Clear and Sanitize Procedures

Memory Devices

The following tables list the volatile and nonvolatile memory devices.

Table 1: Volatile Memory Devices

Type and minimum size	Function	User Modifiable	Data input method	Location	To clear	To sanitize
2048K x 16	Processor System Memory and Data Buffer	No	Written by processor system.	Processing Board		Remove the power source from the instrument for at least 20 seconds.
8K x 8	Processor Execution Instruction Buffer	No	Written by processor system.	Processing Board		Remove the power source from the instrument for at least 20 seconds.

Table 2: Nonvolatile Memory Devices

Type and minimum size	Function	User Modifiable	Data input method	Location	To clear	To sanitize
Serial NVRAM	Stores FPGA instructions for programming of logic inside device.	No	Programmed at the factory. No user data.	Processing Board		Remove Board containing NVRAM.
Flash 2 M x 8 bits	Holds instrument firmware, current setup, saved setups, and calibration constants.	Yes	Firmware operations and user input.	Processing Board		Remove Board containing NVRAM.

Data Export Devices

The following table lists the data export devices.

Table 3: Data Export Devices

Type and minimum size	Function	User Modifiable	Data input method	Location	To disable
USB device port	Supports remote control and data transfer to a PC.	Yes	Remote control via PC	USB device port on rear of instrument.	The USB device port cannot be disabled.
USB host port (supports removable USB flash drive)	User storage.	Yes	User writable	USB host port on back of instrument. Files can be deleted or over-written on a PC, or USB flash drive can be removed and destroyed.	The USB host port cannot be disabled.

Troubleshooting

How to Clear or Sanitize a Non-Functional Instrument

To sanitize a non-functional instrument, remove the main processing board and return the instrument for installation of a new processing board. This board has storage elements that can be programmed with a small amount of user data.