

How to Sanitize User Data in a 34970A Data Acquisition Switch Mainframe for Security Reasons

Purpose

To document the internal memory used in the 34970A instrument and how data can be sanitized/cleared/erased for security reasons.

Volatile Memory

Type: Battery-backed SRAM

Size: 544KB

User Modifiable (Y/N): Yes

Function: Stores instrument readings and instruments state

Process to Sanitize: NOT cleared when power is turned off. Overwrite by measuring some insignificant value (e.g.; zero) at high reading rate. It takes approximately 8 seconds to clear the memory.

Type: FRAM

Size: 512/512 Bytes

User Modifiable (Y/N): No

Function: Cal constants/relay closure counts

Process to Sanitize: Cannot be cleared

Non-Volatile Memory

Type: ROM

Size: 512KB

User Modifiable (Y/N): No

Function: Firmware for internal operation of instrument

Process to Sanitize: N/A ROM cannot be cleared

Removable Media

Type: None

Size:

User Modifiable (Y/N):

Function:

Process to Sanitize:



Additional Information

Battery: None

Contact Information

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