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Memory Information and Procedures

Product: 34420A NANOVOLT/MICRO-OHM METER, 7.5 DIGIT
Date: January 29, 2015

Memory Type: CMOS SRAM	**Memory Size**: 256KB
Memory Function: Store readings and error messages	
User Modifiable (Y/N): Yes	**Volatile** (Y/N): Yes
Memory Erase Processes: Power cycle of the unit erases all volatile memory • Reading Storage (up to 1024 reading may be stored in volatile memory; they can be cleared with a power cycle or by overwriting with other readings). • Error message storage (cleared by power cycle or by sending the *CLS command).	

Memory Type: EPROM	**Memory Size**: 4KB
Memory Function: Store calibration constants	
User Modifiable (Y/N): No	**Volatile** (Y/N): No
Memory Erase Processes: Overwritten via bus. Contains operating code for the product. If you clear this, the instrument is dead.	

Memory Type: CMOS EEPROM	**Memory Size**: 4KB
Memory Function: Store calibration constants and other non-volatile storage	
User Modifiable (Y/N): Yes	**Volatile** (Y/N): No
Memory Erase Processes: Overwritten during the calibration/adjustment process • Calibration Message (non-volatile 40 character message that can be over-written). • Calibration Count (this is a number that is stored by the instrument and tracks the number of single point adjustments that have been done since the product was manufactured – the maximum value for this number is 32,767 after which it wraps around to 0).	

Memory Type: ROM	**Memory Size**: 8-Bit MCU w/ 8K EPROM
Memory Function: Store outguard details (i.e. GPIB address and RS232 settings).	
User Modifiable (Y/N): Yes	**Volatile** (Y/N): No

Memory Erase Processes:

Selection of the GPIB (instrument) address. Can be changed only from the front panel (stored in non-volatile memory).

Use of the "*PSC 0" command allows some of the Power-on and Reset states to be stored in non-volatile memory (using the "*PSC 1" command will make these setting revert to the factory setting following a power cycle).

The following items may be controlled in this manner:

1) Programming Language Selected.
2) Parity for RS-232 Operation.
3) Remote Interface Selection (RS-232 or GPIB).
4) Baud Rate Setting.
5) Display Format.
6) Beeper State.