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Memory Information and Procedures

Product: 34401A 6½ Digit Digital Multimeter

October 3, 2006

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 512 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): Yes	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)	-	

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.

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