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Letter of Volatility

This letter describes the various types of memory within the 3200 range of temperature/process controllers and 3200i range of indicators and alarm units, and their associated behaviors. The information within this letter is intended to assist customers with their security compliance requirements.

Memory Type	Memory Size	Memory Function	User Modifiable	Volatile	Memory Erase Process
Flash Program Memory	8KB	DC Input option microprocessor – program code storage	No	Non-volatile	Only via JTAG
	64KB	3200 Main microprocessor – program storage, factory calibration data, option enable and disable flags	Yes	Non-volatile	Firmware update, boot monitor, or via JTAG
EEPROM (not battery backed)	512B	DC Input option internal configuration	No	Non-volatile	Only via JTAG
	8KB	3200 Main microprocessor – user parameter settings, SP programmer profiles, Recipe settings, calibration	Yes	Non-volatile	Via JTAG, Serial factory communications
SRAM	1KB	DC Input option internal working memory	No	Volatile	Remove power. Wait for memory contents to degrade
	4KB	3200 Main microprocessor internal program stack, internal variables, non-volatile user variables	Yes	Volatile	Remove power. Wait for memory contents to degrade

Note 1: A "cold start" instrument function is provided to clear EEPROM to a default state. However, this does not fully erase EEPROM memory, and a partial record of the previous contents may be retained.

Note 2: Internal microprocessor chip erase function does not clear EEPROM.

For Technical Support, either by telephone or via email, please contact your local Eurotherm Helpdesk

Tim Linnell
Product Portfolio Manager (Eurotherm)

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