FN-MONITOR Reference Manual

FN-SM-MON18 Rev. 1.8 2013-06

1. Overview

FN-MONITOR V1.8 is the service terminal for FN-2400 controllers. It operates on the controller's virtual data address space and simulation state. Access requires an authenticated service session.

2. Conventions

- Addresses and values are hexadecimal (e.g. 0x0034, $34 or 34).
- Address range: 0000–FFFF. Value range: 00–FF.
- Commands are case-insensitive.

3. Command Reference

Command	Syntax	Description
HELP	HELP	List available commands
INFO	INFO	Display controller information
STATUS	STATUS	Display device and simulation status
REGS	REGS	Display processor registers, SP and SREG
PEEK	PEEK <addr> [n]	Read n bytes (default 1)
POKE	POKE <addr> <val>	Write one byte
DUMP	DUMP <addr> [len]	Hex + ASCII dump of a region
SNAPSHOT	SNAPSHOT [name]	Save a named snapshot; no name lists snapshots
DIFF	DIFF <a> <b>	Compare two named snapshots
WATCH	WATCH [addr]	Watch an address; no addr lists watches
UNWATCH	UNWATCH <addr>	Stop watching an address
RESET	RESET	Restart the controller
FACTORY	FACTORY	Restore initial device state
CLS	CLS	Clear the terminal
EXIT	EXIT	Leave the service session

4. Examples

```
&gt; PEEK 0x0030
0030: 98    (dec 152  bin 10011000  FN-TEMP8 -24)

&gt; DUMP 0x0030 16
0030  98 D8 ...

&gt; POKE 0x0030 00
OK  0030: 98 -&gt; 00

&gt; SNAPSHOT baseline
SNAPSHOT 'baseline' SAVED (65536 bytes).
```

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```
&gt; DIFF baseline current
DIFF baseline -&gt; current: 3 byte(s) differ
```

NOTE: The examples above use generic sensor addresses. They are illustrative and are not unit-specific.

5. Error Handling

Malformed commands, out-of-range addresses and invalid values return a descriptive message prefixed with '?'. Commands are rate limited; sustained high command rates return a rate-limit notice.

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