

## Instrument Security Procedures

### Models:

Fluke 87-IV, Fluke 89-IV, Fluke 187, Fluke 189

### Product Name:

True RMS Multimeter

### Instrument Description:

Digital/Analog Multimeters

### Memory Description:

Fluke 87-IV, 89-IV, 187 and 189 have three memory devices:

1. U12, SRAM, KM62U256CLTG, 32k x 8 bytes, volatile memory used to store saved and logged readings, maintained by a capacitor.
2. U16, mask ROM micro controller with 2k x 8 bytes RAM, Sharp SM6004, contains operating code for the product
3. U10, serial EEPROM, 33C116, 2k x 8 bytes, non-volatile memory used to store calibration constants.

Calibration constants are stored in U10. The calibration constants are generated when the meter is sent through its calibration process and are fundamental to the meter operation. The internal micro controller, U16, RAM is not accessible to the user through the remote interface and its contents are lost when the meter is turned off.

### Memory Cleaning Instructions:

To Clear Saved Memory:

If readings have been stored in "Saved" memory:

1. Move rotary switch to View Memory
2. Push (Range) key. The word "MEM" is in the display with a reading. If no readings are in Saved memory dashes appear in the display.
3. Push the blue button.
4. Press the Up arrow key for Yes.

To Clear Logged Memory:

1. Move rotary switch to View Memory.
2. Push (Rel) key so the word "LOG" is in the display.
3. Push the blue button.
4. Press the Up arrow key for Yes.

If no readings are in Logged memory dashes appear in the display.

Removing the battery for 30 minutes will also clear the saved and logging memory.