

## Boonton 4240 and 9240 Series Instrument Security Procedures

This discussion covers the following Boonton Electronics models: 4241 and 4242 RF Power Meters and 9241 and 9242 RF Voltmeters.

1. **Memory Description.** The Boonton 4240 and 9240 Series instruments contain three types of internal memory, designated (a) through (c):
2. Size/type of memory:
  - a. Non-volatile FLASH, 4M bit x 2 (256Kx16x2), AM29LV400B
  - b. Non-volatile EEPROM, 128k bit (16Kx8), AT24C128
  - c. Volatile SRAM, 64M bit (2Mx32), MT48LC2M32B2
3. Location of memory:
  - a. All memories (a, b, c) are located on the instrument main circuit board.
4. Contents of memory:
  - a. Instrument operating firmware and tables.
  - b. Permanent configuration and factory calibration data, and stored user configurations.
  - c. All temporary program and user information
5. Memory read access:
  - a. Read by microprocessor to boot and execute application program. Not user accessible.
  - b. Read by microprocessor to retrieve configuration and calibration data. Some data can be retrieved by user.
  - c. Read by microprocessor to recall volatile program data.
6. Memory write access:
  - a. None. FLASH must be factory programmed.
  - b. Only "Setup Save" configuration information EEPROM may be user stored. 10 setups.
  - c. Written by microprocessor to store volatile program data.
7. Sanitization procedure:
  - a. None. No user-accessible data is stored in FLASH.
  - b. The only user-accessible areas of the EEPROM are the "saved user setup" registers (10 locations). These registers may be cleared by recalling SANITIZE in Menu>SETUP>RECALL. When complete all saved location are set to the DEFAULT setting.
  - c. All SRAM data may be erased by removing power from the instrument for 15 seconds.