

Operating Procedure (continued)

Calibration

Each meter is accurately calibrated prior to shipment. There should be no need to adjust the calibration screws located under the protected caps on each side of the housing. Due to the sensitivity and difficulty of precise calibration it is recommended that the meter be returned to the factory if calibration is ever needed. Any tampering with these calibration adjustment screws by the user voids the warranty on the device. To determine if calibration is necessary, measure the voltage on a piece of Scotch Brand #810 magic mending tape. Pull 8"-10" of tape from the roll and hold in the air so the strip of tape hangs down from the hand. The reading should be at least 5000 volts positive at a distance of two inches.

When The Instrument Will Not Zero:

1. Batteries need replacement (see below). If the new batteries do not correct the problem, return the instrument for repair and/or calibration to:

3M
Static Control Systems
Gate 4, Bldg. 590
TCAAP
New Brighton, Minnesota 55112
Attn: SCSQC

There is a minimum charge of \$40.00 for this service. Charges in excess of \$40.00 require customer approval prior to repair.

2. If the charge on the surface measured is very high the element in the meter can be saturated. If this occurs ground the tip of the meter until a zero can be obtained. Do not use the meter in the immediate vicinity of High Electrical Discharge Machinery, such as corona discharge equipment for the surface treatment of plastic film.

To Change Batteries

1. The normal operating life of fresh batteries is approximately 50 hours continuous use at 15°F or higher.
2. The Model 703 Static Meter uses two (2) 9V batteries (same type as used in transistor radios); Ever-ready 216, Burgess 2U6, Ray-o-Vac 1604, NEDA 1604.
3. To change batteries, remove cap on the bottom of the handle. There are two retaining screws. Pry off the snap-on battery clips from both batteries.
4. Replace clips and insert new batteries, being careful that snaps on the battery match those on the clip.

NRC Regulations

You automatically become a GENERAL LICENSEE when you receive the 3M Model 703 Static Meter. Applicable N.R.C. Regulations may be found on the back of this sheet. The use of this device in an Agreement State is regulated under requirements substantially the same as these. In general the regulations state:

- (1) All labels **must** be maintained on the device and you **must** comply with the instructions provided with the device.
- (2) You cannot transfer the device(s) to another general licensee.
- (3) In case a static meter has been subjected to fire or other catastrophe or has been lost or stolen, **NOTIFY THE STATIC CONTROL SYSTEMS DEPARTMENT, 3M, IMMEDIATELY BY TELEPHONE. THE NUMBER TO CALL (collect) IS 612/733-9420.** Ask for the Regulatory Affairs Manager. You will be advised relative to reporting the incident to the proper authorities if required.
- (4) Do not touch the foil or the grid of the Tritium Holder. Federal regulations do not require a leakage test on this static meter.
- (5) If the device needs repairs, a new source, or its use is to be discontinued, return the entire unit to 3M (see address in item #1,) "When the Instrument will not Zero". Do not discard as scrap.
- (6) **MODIFICATION OF 3M STATIC METERS BY OPERATIONS SUCH AS CUTTING, DRILLING, WELDING, BRAZING OR OTHER DESTRUCTIVE AND/OR ALTERING OPERATIONS IS IN VIOLATION OF FEDERAL LAW AND NOT ALLOWED UNDER ANY CIRCUMSTANCES.**
- (7) Under USNRC and State regulations your operations using 703 static meters may be inspected for compliance with these regulations. State regulations may require registration of your devices.

Important Notice To Purchaser:

This is a Sensitive Electrical Instrument and with reasonable care should give many years of useful service. Each device is inspected before shipment and is in good working order. The Meter is warranted against defects in material and workmanship for ninety (90) days from the date of purchase.

The Seller's and Manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use, or the inability to use the product.