DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR
ELECTRONIC VOLTMETER
ME-202C/U

Headquarters, Department of the Army, Washington, DC
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SECTION I
IDENTIFICATION AND DESCRIPTION

1. Test Instrument Identification. This bulletin provides instructions for the calibration of Electronic Voltmeter ME-202C/U. TM 11-6625-2724-12 was used as the prime data source in compiling these instructions. The equipment being calibrated will be referred to as the TI (test instrument) throughout this bulletin.


   b. Time and Technique. The time required for this calibration is approximately 1 hour, using the dc and low frequency technique.

2. Forms, Records, and Reports

   a. Forms, records, and reports required for calibration personnel at all levels are prescribed by TB 750-25.

   b. Adjustments to be reported are designated (R) at the end of the sentence in which they appear. When adjustments are in tables, the (R) follows the designated adjustment. Report only those adjustments made and designated with (R).

3. Calibration Description. TI parameters and performance specifications which pertain to this calibration are listed in Table 1.

<table>
<thead>
<tr>
<th>Test instrument parameters</th>
<th>Performance specifications¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dc and ac volts (TVM)</td>
<td>Range: 0 to 1000 V</td>
</tr>
<tr>
<td></td>
<td>Accuracy: ±3.0% of reading</td>
</tr>
<tr>
<td>Dc volts (differential mode)</td>
<td>Range: 0 to 1000 V</td>
</tr>
<tr>
<td></td>
<td>Accuracy: ±0.05% of reading</td>
</tr>
<tr>
<td>Ac volts (differential mode)</td>
<td>Range: 0 to 1000 V, 200 Hz to 20 kHz</td>
</tr>
<tr>
<td></td>
<td>Accuracy: ±0.2% of reading</td>
</tr>
</tbody>
</table>

¹Derated to accuracy specified.

SECTION II
EQUIPMENT REQUIREMENTS

4. Equipment Required. Table 2 identifies the specific equipment to be used in this calibration procedure. This equipment is issued with Secondary Transfer Calibration Standards Set AN/GSM-286. Alternate items may be used by the calibrating activity. The items selected must be verified to perform satisfactorily prior to use and must bear evidence of current calibration. The equipment must meet or exceed the minimum use specification listed in Table 2. The accuracies listed in Table 2 provide a four-to-one ratio between the standard and TI.