

***TB 9-6625-2266-35**

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR DIGITAL MULTIMETER FLUKE, MODELS 8020A AND 8020B

Headquarters, Department of the Army, Washington, DC

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*This bulletin supersedes TB 9-6625-2266-35, dated 31 October 1991.

SECTION I IDENTIFICATION AND DESCRIPTION

1. Test Instrument Identification. This bulletin provides instructions for the calibration of Digital Multimeter, Fluke, Models 8020A and 8020B. The manufacturers' manuals were used as the prime data sources in compiling these instructions. The equipment being calibrated will be referred to as the TI (test instrument) throughout this bulletin.

a. Model Variations. Variations among models are described in text and tables.

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 1. Calibration Description

Test instrument parameters	Performance specifications Fluke, Model 8020A			
Dc voltage	Range: 0 to 1000 V (in 5 ranges) Accuracy: $\pm(0.25\%$ of reading + 1 digit)			
Ac voltage	Range: 0 to 750 V (in 5 ranges) Frequency: 45 Hz to 5 kHz Accuracy: $\pm(\%$ of reading + digits)			
	Range	Frequency		
		45 Hz to 1 kHz	1 to 2 kHz	2 to 5 kHz
	200 mV	.75 + 2	1.5 + 3	5.0 + 5
	2 V			
	20 V			
	200 V	.75 + 2	1.5 + 3	N/A
	750 V	1.0 + 2	N/A	N/A