TM 11-6625-444-15

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE MANUAL

DIGITAL VOLTMETER AN/GSM-64

This copy is a reprint which includes current pages from Change 1.

HEADQUARTERS, DEPARTMENT OF THE ARMY

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No. 11-6625-444-15

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Operator's Organizational, Direct Support, General Support and Depot Maintenance Manual
DIGITAL VOLTMETER AN/GSM-64

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*This manual supersedes TM 11-6625-444-15, 27 February 1962, including all changes.

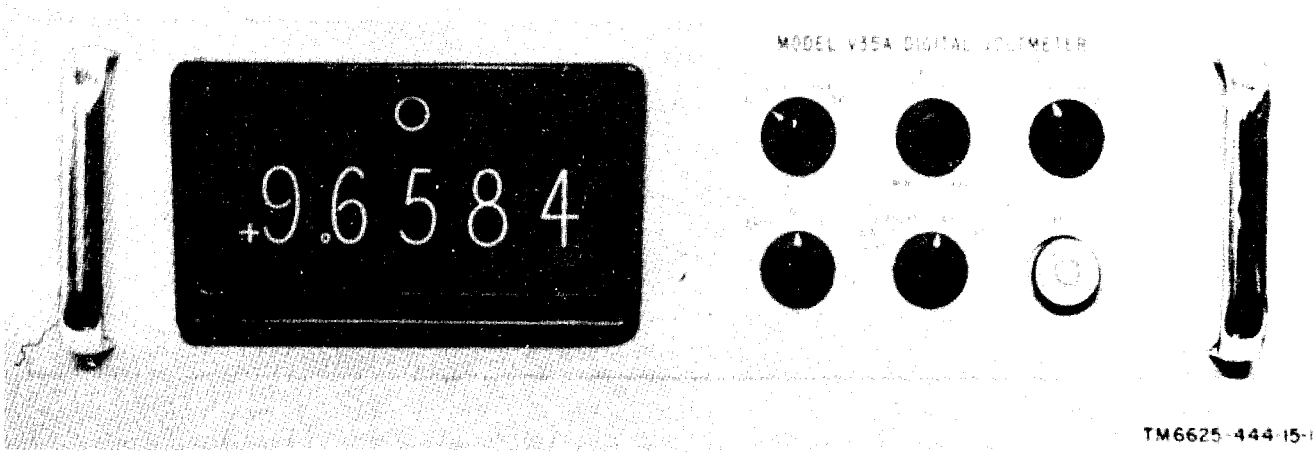

Figure 1-1. Digital Voltmeter AN/GSM-64.

CHAPTER 1
INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This manual contains instructions covering operation, organizational, direct support, general support, and depot maintenance of Digital Voltmeter AN/GSM-64 (fig. 1-1). It includes instructions for troubleshooting, testing, aligning, and repairing the equipment. Also included is the functioning of the AN/GSM-64.

b. Appendix C is current as of 1 August 1968.

1-2. Indexes of Publications

a. DA Pam 310-4. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. DA Pam 310-7. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO's) pertaining to the equipment.

1-3. Forms and Records

a. Reports of Maintenance and Unsatisfacto~ Equipment. Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

b. Report of Packaging and Handling Deficiencies. Fill out and forward DD Form 6 (report of Packaging and Handling Deficiencies) as prescribed in AR 700-58 (Army)/NAVSUP Pub 378 (Navy)/AFR 71-4 (Air Force)MCO P4030.29 (Marine Corps), and DSAR 4145.8.

c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38 (Army)/NAVSUPINST 4610.33/AFM 75-18/MCO P4610.19A (Marine Corps), and DSAR 4500.15.

1-3.1. Reporting of Errors

The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commander, US Army Electronics Command, ATTN: AMSEL-MA-C Fort Monmouth, NJ 07703.

Section II. DESCRIPTION AND DATA

1-4. Purpose and Use

a. Digital Voltmeter AN/GSM-64 (digital voltmeter) is used for rapid and accurate measurements of direct current (dc) voltages and dc voltage ratios. The range of dc measurement is from 100 microvolts to 1,000 volts, and the range of dc ratio measurements is up to 100:1.

b. In addition to the front panel readout, a print output is provided through a rear panel connector.

1-5. Technical Characteristics

Absolute dc measurements:	
Ranges	±0.0001 to +999.99 volts in three ranges of 9.9999, 99.999, and 999.99.
Accuracy	±0.01% of reading, or ±1 digit.
Resolution	±digit.
Input impedance at balance	10 megohms.
DC voltage ratio measurements:	
Range	±00.001% to ±99.999%.
Accuracy (overall)	±0.005%, or ±1 digit.
Input impedance at balance for signal input	1,000 megohms.
External reference voltage range	Up to ±100 volts dc.
Input impedance (reference)	50 K Ω.
Balancing time	2.3 seconds, maximum
Line-voltage input	115 volts ±10%, 60 Hz.
Power consumption:	
Standby	20 watts.
Balancing	50 watts.
Signal ground connection	Isolated from frame of instrument.
Weight:	
Net	45 lb.
Shipping	65 lb.
Front panel paint	Light gray (MIL-E-15090B, type 3, Class 1).