

INCH-POUND

MIL-PRF-10304/26E
w/AMENDMENT 2
28 August 2013
SUPERSEDING
MIL-PRF-10304/26E
w/AMENDMENT 1
18 January 2008

PERFORMANCE SPECIFICATION SHEET

METERS, ELECTRICAL INDICATING, PANEL TYPE, RUGGEDIZED:
RECTIFIER-TYPE VOLTMETER, AC
(FLUSH MOUNTING, ROUND FLANGE, 3.5 INCH), STYLES 34 AND 36

This specification is approved for use by all
Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and
MIL-PRF-10304.

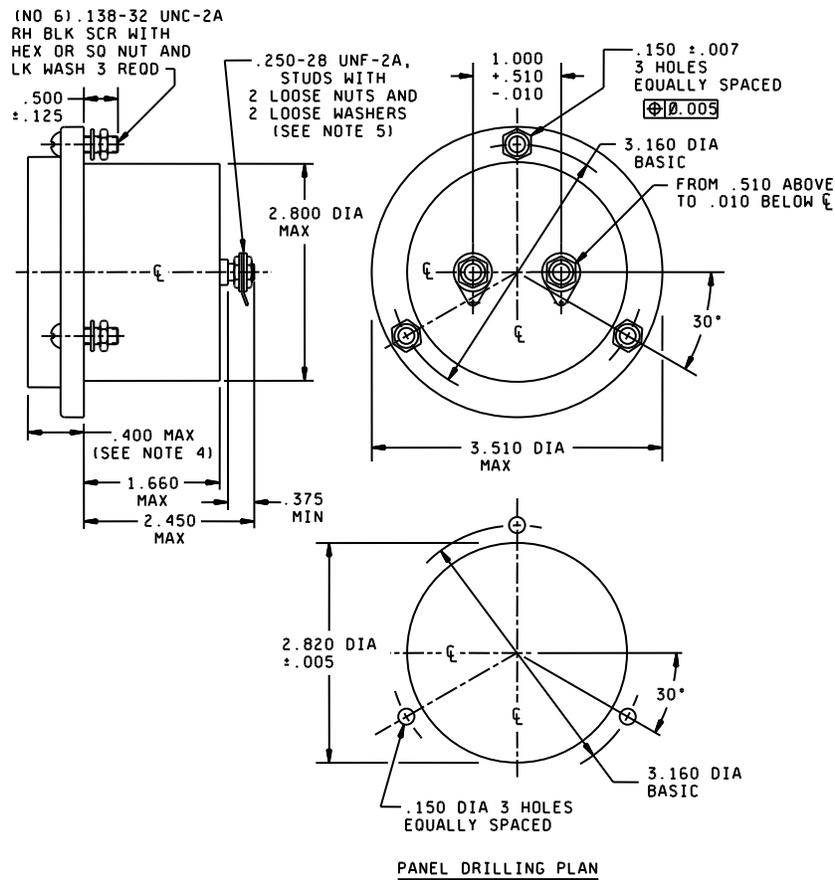


FIGURE 1. Meter, panel type.

MIL-PRF-10304/26E
w/AMENDMENT 2

Inches	mm	Inches	mm	Inches	mm
.005	.13	.250	6.35	1.660	42.16
.007	.18	.375	9.53	2.450	62.23
.010	.25	.400	10.16	2.800	71.12
.125	3.18	.500	12.70	2.820	71.63
.138	3.51	.510	12.95	3.160	80.26
.150	3.81	1.000	25.40	3.510	89.15

NOTES:

1. Dimensions are in inches. Unless otherwise specified, tolerances are $\pm .015$ inch for two place (.XX), and $\pm .005$ inch for three place (.XXX) dimensions.
2. Tolerance is ± 0.5 ($\frac{1}{2}$) degree on angles.
3. Metric equivalents are given for general information only.
4. Maximum projection from front panel including mounting gaskets (if used).
5. Other forms of terminals, as specified in MIL-PRF-10304, are permitted. The specified minimum length applies to stud-type terminals only. Terminals shall be equally spaced, from each side of vertical centerline.

FIGURE 1. Meter, panel type – Continued.

REQUIREMENTS:

(Readings expressed as a percent of full-scale value.)

Dimensions and configuration: See figure 1.

Weight: 16 ounces maximum.

Full-scale ranges: See table I.

Scale:

Length: 5 inches minimum (style 34); 2 inches minimum (style 36).

Pointer deflection: 250 degrees minimum (style 34); 90 degrees nominal (style 36).

Position influence: ± 1 percent change for 60 degrees rotation from normal operating position (style 34); ± 2 percent change for 60 degrees rotation from normal operating position (style 36).

Accuracy: ± 2 percent (style 34); ± 3 percent (style 36).

Overshoot: 40 percent maximum.

Response time: 3 seconds maximum (style 34); 2 seconds maximum (style 36).

Power consumption (loss) (at end scale deflection):

Self-contained instruments: 1.1 mA maximum.

External resistors: 1.0 mA ± 3 percent.

Terminal voltage drop: 2 volts ± 3 percent (external resistor ranges).

Frequency range (± 2 percent change): at 50/60, 500, and 1,000 Hz.

High temperature cycling:

Above 5 volts: ± 5 percent.

5 volts and below: ± 10 percent.

Permanent change: ± 2 percent.

Temperature influence:

Above 5 volts: ± 3 percent.

5 volts and below: ± 4 percent.

Exposure to extreme temperatures:

± 3 percent (style 34), ± 2 percent (style 36).

MIL-PRF-10304/26E
w/AMENDMENT 2

Overload capacity:

Sustained overload:

± 1 percent temporary zero shift.

± 1 percent permanent zero shift.

± 2 percent permanent change.

Dielectric withstanding voltage: 3, 000 volts rms.

TABLE I. Full-scale ranges.

Volts		Kilovolts ^{1/}	
2	100	1	10
5	200	2	20
10	300	5	50
20	^{1/} 500		
30			
50			

^{1/} Used with external resistor.

These meters shall have a full-scale-deflection of 1 milliamper.

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents. This document references MIL-PRF-10304.

CONCLUDING MATERIAL

Custodians:

Army - CR

Navy - SH

Air Force - 99

DLA - CC

Preparing activity:

DLA - CC

(Project 6625-2013-017)

Review activities:

Army - AR, AT, AV, MI

Navy - MC

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.