

INCH-POUND

MIL-PRF-10304/4D
w/AMENDMENT 2
28 August 2013
SUPERSEDING
MIL-PRF-10304/4D
w/AMENDMENT 1
18 January 2008

PERFORMANCE SPECIFICATION SHEET

METERS, ELECTRICAL INDICATING, PANEL TYPE, RUGGEDIZED:
VOLTMETER, DC (FLUSH MOUNTING, ROUND FLANGE, 2.5 INCH) STYLE 26

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.

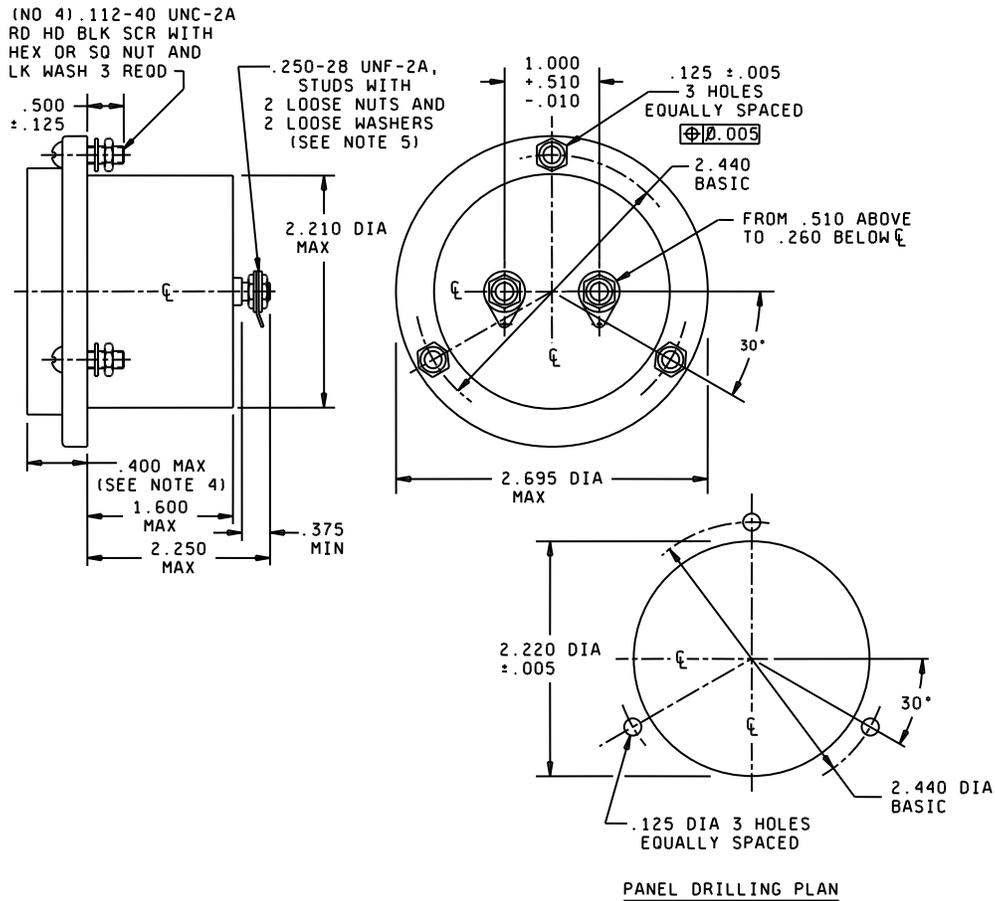


FIGURE 1. Meter, panel type.

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Inches	mm	Inches	mm	Inches	mm
.005	.13	.375	9.53	2.210	56.13
.010	.25	.400	10.16	2.220	56.39
.112	2.84	.500	12.70	2.250	57.15
.125	3.18	.510	12.95	2.440	61.98
.250	6.35	1.000	25.40	2.695	68.45
.260	6.60	1.600	40.64		

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 percent of full-scale value.)

Dimensions and configuration: See figure 1.

Full-scale ranges: See table I.

Scale:

Length: 1.5 inches minimum.

Pointer deflection: 10 degrees minimum.

Position influence: ± 2 percent change for 60 degrees rotation from normal operating position.

Accuracy: ± 2 percent.

Overshoot: 50 percent maximum.

Response time: 2 seconds maximum.

Power consumption (loss) (at end scale deflection): 1 mA ± 5 percent.

High temperature cycling:

± 3 percent.

± 2 percent permanent change.

Temperature influence: ± 0.75 percent change.

Exposure to extreme temperature: ± 3 percent permanent change.

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.

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TABLE I. Full-scale ranges.

Volts			Kilovolts ^{1/}		
Zero left	Zero center				
2	100	50-0-50		1	10
5	150	100-0-100		2	20
10	200	200-0-200		5	30
20	300				
30	^{1/} 500				
50					

^{1/} Used with external resistor. These meters shall have a full-scale deflection of 1 mA, with 150 mV maximum terminal drop. Requirements for these meters shall be as specified for milliammeters in accordance with MIL-PRF-10304/5.

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. In addition to MIL-PRF-10304, this document references the following:

MIL-PRF-10304/5

CONCLUDING MATERIAL

Custodians:
Army – CR
Navy – SH
Air Force – 99
DLA – CC

Preparing activity:
DLA – CC
(Project 6625-2013-003)

Review activities:
Army – AR, AT, AV, CR4, 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>.