

INCH-POUND

MIL-PRF-10304/32A
w/AMENDMENT 2
28 August 2013
SUPERSEDING
MIL-PRF-10304/32A
w/AMENDMENT 1
18 January 2008

PERFORMANCE SPECIFICATION SHEET

METERS, ELECTRICAL INDICATING, PANEL TYPE, RUGGEDIZED:
VOLTMETER, DC (FLUSH MOUNTING, ROUND FLANGE, 1 INCH),
STYLES 05, 06, AND 07

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

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

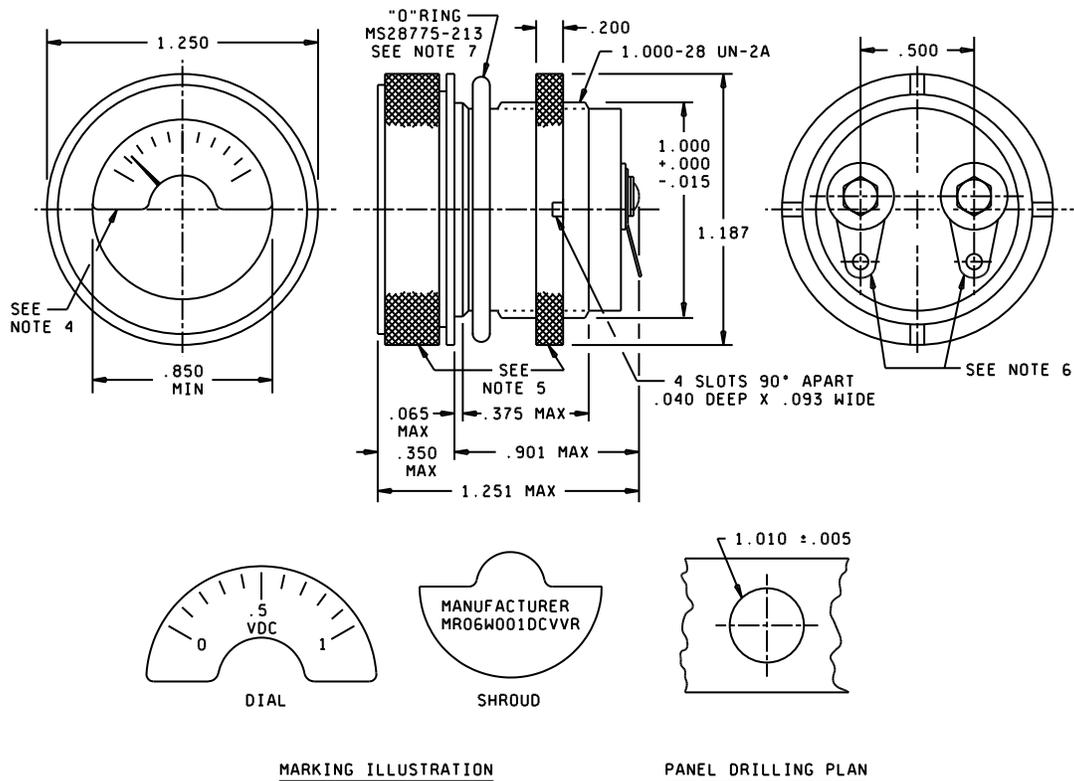


FIGURE 1. Meter, panel type.

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Inches	mm	Inches	mm	Inches	mm
.005	.13	.350	8.89	1.010	25.65
.015	.38	.375	9.53	1.187	30.15
.040	1.02	.500	12.70	1.250	31.75
.065	1.65	.850	21.59	1.251	31.78
.093	2.36	.901	22.89		
.200	5.08	1.000	25.40		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is $\pm .015$ (.38 mm).
4. Shroud design is optional.
5. Knurled edge required for mounting; optional for front flange.
6. The solder lug terminals shall accommodate wire of a diameter of .065 (1.65 mm) and may accommodate up to a maximum diameter of .105 (2.67 mm).
7. The O-ring shall be in accordance with SAE AS28775 (table I, dynamic or static use), Part or Identifying Number (PIN) MS28775-213.

FIGURE 1. Meter, panel type - Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Weight: 4 ounces maximum.

Case material: Metal or molded thermosetting plastic.

Full-scale ranges: See table I.

Scale:

Pointer deflection: 90 degrees minimum.

Length: .75 inch minimum.

Power consumption: 1 milliampere \pm 5 percent.

Position influence: \pm 3 percent.

Accuracy: \pm 3 percent.

Overshoot: 50 percent maximum or minimum damping factor of 2.

Response time: 3 seconds.

High temperature cycling:

\pm 4 percent.

\pm 4 percent permanent change.

Temperature influence: \pm 1 percent.

Exposure to extreme temperatures:

\pm 8 percent.

\pm 3 percent permanent change.

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Overload capacity:

 Momentary overload: ± 2 percent.

 Sustained overload:

± 2 percent temporary zero shift.

± 1 percent permanent zero shift.

± 2 percent permanent change.

Dielectric withstanding voltage: 1, 000 volts rms.

Supersession data: See table II.

TABLE I. Full-scale ranges.

Voltmeter	
Millivolts	
Zero left	Zero Center
1.0	.5-0-.5
2.0	1-0-1
5.0	5-0-5
10.0	10-0-10
20.0	25-0-25
50.0	50-0-50
100.0	

TABLE II. Supersession data.

Superseded type designation <u>1/</u>	New type designation <u>1/</u>
<u>Style 04</u>	<u>Style 07</u>
MR04*001DCVV	MR04*001DCVVR
MR04*005DCVV	MR04*005DCVVR
MR04*010DCVV	MR04*010DCVVR
MR04*050DCVV	MR04*050DCVVR
MR04*100DCVV	MR04*100DCVVR
<u>Style 05</u>	<u>Style 05</u>
MR05*001DCVV	MR05*001DCVVR
MR05*005DCVV	MR05*005DCVVR
MR05*010DCVV	MR05*010DCVVR
MR05*050DCVV	MR05*050DCVVR
MR05*100DCVV	MR05*100DCVVR
<u>Style 06</u>	<u>Style 06</u>
MR06*001DCVV	MR06*001DCVVR
MR06*005DCVV	MR06*005DCVVR
MR06*010DCVV	MR06*010DCVVR
MR06*050DCVV	MR06*050DCVVR
MR06*100DCVV	MR06*100DCVVR

1/ The appropriate color scheme code letter of A, B, F, P, or W is located where the * appears above, as specified in MIL-PRF-10304 under the titles "Type designation" and "Color scheme".

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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:

SAE AS28775

CONCLUDING MATERIAL

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

Preparing activity:
DLA – CC
(Project 6625-2013-020)

Review activities:
Army – AV, MI

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>.