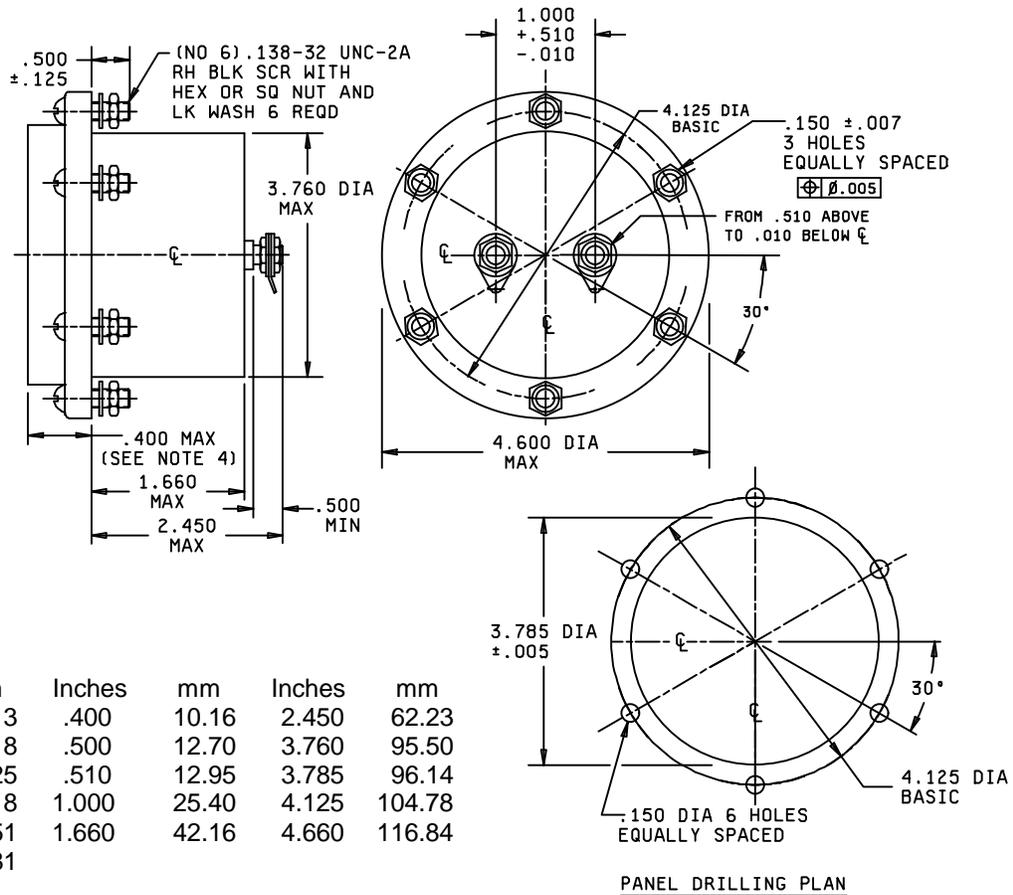


PERFORMANCE SPECIFICATION SHEET

METERS, ELECTRICAL INDICATING, PANEL TYPE, RUGGEDIZED:
 VOLTMETER AND AMMETER, DC LONG SCALE
 (FLUSH MOUNTING, ROUND FLANGE, 4½ INCH), STYLE 44

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

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



Inches	mm	Inches	mm	Inches	mm
.005	.13	.400	10.16	2.450	62.23
.007	.18	.500	12.70	3.760	95.50
.010	.25	.510	12.95	3.785	96.14
.125	3.18	1.000	25.40	4.125	104.78
.138	3.51	1.660	42.16	4.600	116.84
.150	3.81				

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Tolerance is $\pm 1/2^\circ$ on angles.
4. Maximum projection from front of panel including mounting gaskets (if used).

FIGURE 1. Meter, panel type.

MIL-PRF-10304/23D

REQUIREMENTS:

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

Dimensions and configuration: See figure 1.

Full-scale ranges: See table I.

Scale:

Length: 6 inches minimum.

Pointer deflection: 250° nominal.

Position influence: ±1 percent change for 60° rotation from normal operating position.

Accuracy: ±1 percent.

Overshoot: 50 percent maximum.

Response time: 3 seconds maximum.

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

Milliammeters 0-1 mA - 700 mV maximum.

Milliammeters above 1 mA - 150 mV maximum.

Voltmeter - 1 mA nominal.

High temperature cycling:

±4.0 percent.

±0.5 percent change.

Temperature influence: ±1 percent change.

Exposure to extreme temperatures: ±3 percent permanent change.

Overload capacity:

Momentary overload: ±2 percent permanent change.

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.

Voltmeters		Ammeters			
Volts		Microamperes		Milliamperes	
Zero left	Zero center	Zero left	Zero center	Zero left	Zero center
1	1-0-1	100	50-0-50	1	1-0-1
2	10-0-10	200	100-0-100	5	5-0-5
10	30-0-30	300	200-0-200	10	10-0-10
20	50-0-50	500	300-0-300	20	
30	100-0-100		500-0-500	30	
50					
100					
200					
300					
500					

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Custodians:

Army - CR
Navy - SH
Air Force - 99
DLA - CC

Preparing activity:
DLA - CC

(Project 6625-0876)

Review activities:

Air Force - 11
Army - AR, AT, AV, CR4
Navy - MC