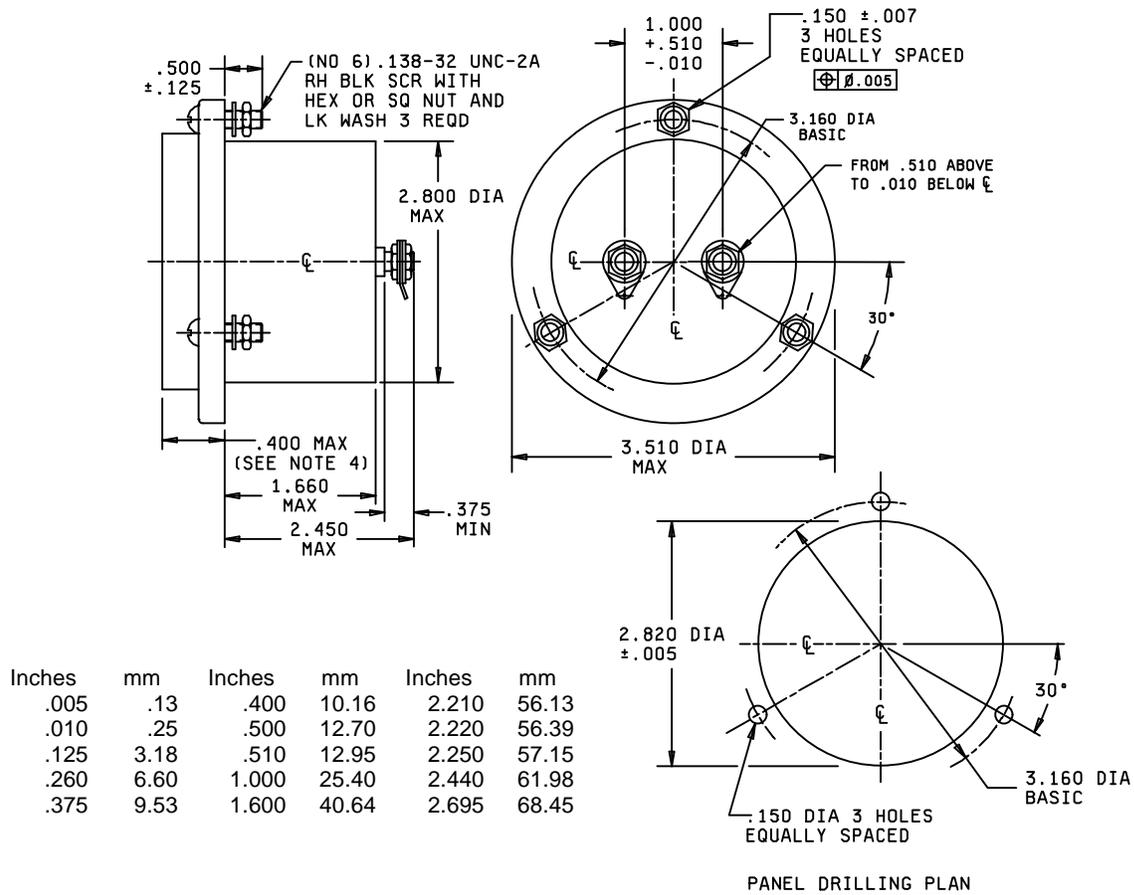


PERFORMANCE SPECIFICATION SHEET

METERS, ELECTRICAL INDICATING, PANEL TYPE, RUGGEDIZED:
 AMMETER, AC (FLUSH MOUNTING, ROUND FLANGE, 3½ INCH), STYLE 36

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.



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 panel including mounting gaskets (if used).
5. For self-contained meters of 30 amperes (amp) and above, this dimension is 2 (50.80 mm) max.
6. For self-contained meters of 30 amperes (amp) and above, this dimension is 2.625 (66.68 mm) max.

FIGURE 1. Meter, panel type.

MIL-PRF-10304/14D

REQUIREMENTS:

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

Dimensions and configuration: See figure 1.

Full-scale ranges: See table I.

Scale:

Length: 2 inches minimum.

Pointer deflection: 90° minimum.

Position influence: ±2 percent change of 60° rotation from normal operating position.

Accuracy: ±2 percent.

Overshoot: 67 percent maximum .

Response time: 2.5 seconds maximum.

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

Self-contained 60-Hz ammeters at 60 Hz: 1 VA maximum.

Self-contained 400-Hz ammeters at 400 Hz: 2 VA maximum.

Self-contained 800-Hz ammeters at 800 Hz: 3.5 VA maximum.

Frequency range (±2 percent change):

<u>Nominal frequency</u>	<u>Extreme range</u>
60-Hz voltmeters (AC)	25-125 Hz
400-Hz voltmeters (AF)	360-440 Hz
800-Hz voltmeters (AE)	720-880 Hz

High temperature cycling:

±2 percent.

±2 percent permanent change.

Temperature influence: ±0.5 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.

Milliamperes (AC, AE, AF)		Amperes (AC, AE, AF)		
10	100	1	10	300
20	200	2	20	1/ 500
30	300	5	30	1/ 800
50	500		50	1/ 1000

1/ Used with external transformer. Current through meter at full-scale deflection shall be 5 amperes.

MIL-PRF-10304/14D

Custodians:

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

Preparing activity:

DLA - CC

(Project 6625-0870)

Review activities:

Air Force - 11, 17
Army - AR, AT, AV, CR4
Navy - MC