

MIL-PRF-10304/22D

REQUIREMENTS:

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

Dimensions and configuration: See figure 1.

Full-scale ranges: See table I.

Scale:

Length: 5 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	50	50-0-50	1	1-0-1
2	10-0-10	100	100-0-100	5	5-0-5
10	30-0-30	200	200-0-200	10	10-0-10
20	50-0-50	500	500-0-500	30	
30	100-0-100			50	
50	200-0-200				
100					
200					
300					
500					

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Custodians:

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

Preparing activity:
DLA - CC

(Project 6625-0875)

Review activities:

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