



**(B) CANCELED AFTER 18 Jul 83. NO SUPERSEDING STANDARD.**

1. METER MOVEMENT: MECHANISM SHALL PROVIDE 200-0-200 MICROAMPERES  $\pm 10\%$  RANGE BETWEEN DIAL MARKINGS. (SEE NOTE 7)
2. RESPONSE TIME: 5 SECONDS MAX.
3. DAMPENING FACTOR: OVERDAMPED (NO OVERSHOOT)
4. FACE DIAL: BLACK BACKGROUND, WHITE CENTER MARKER, WHITE DOT AND CROSS.
5. NEEDLE: 1/16  $\pm$  1/64 INCH WIDE AND COLORED WHITE.
6. DEFLECTION: METER SHALL DEFLECT CLOCKWISE WHEN POSITIVE VOLTAGE IS APPLIED TO THE PLUS TERMINAL.
7. SCALE FACE: AS PER ABOVE FIGURE.
8. ADD A 10 K RESISTOR  $\pm 5\%$  IN SERIES WITH THE METER MOVEMENT AND ENCLOSED IN THE BODY OF THE METER.
9. METER SHOULD BE ABLE TO WITHSTAND A 500  $\mu$ A LOADING FOR 1 HOUR WITHOUT DAMAGE.
10. THE SOLDER LUG TERMINALS SHALL ACCOMMODATE WIRE OF A DIAMETER OF .065.
11. ALL DIMENSIONS IN INCHES.
12. KNURLED EDGE REQUIRED FOR MOUNTING, OPTIONAL FOR FRONT FLANGE.
13. REFERENCED SPECIFICATION SHALL BE OF THE ISSUE ON DATE OF INVITATION FOR BIDS.
14. "O" RING, AN PART NO. AN 6227-18.
15. THE DASH NO. ADDED TO THE MS MILITARY STANDARD NUMBER CONSTITUTES THE MS PART NUMBER, FOR EXAMPLE MS 27596-1.
16. SHROUD DESIGN IS OPTIONAL.
17. METER FACE MOUNTING SCREWS AND NUTS MUST BE BLACK.

MANUFACTURER  
MS 27596-1

SHROUD  
MARKING ILLUSTRATION

This standard has been approved by the Department of the Army and is mandatory for use by other military activities are required to employ this standard where suitable.

P.A. AF - 82  
Other Cust  
AF - 99

TITLE

METER, ARBITRARY SCALE, 1 INCH,  
D.C. (NULL INDICATING) (A)

MILITARY STANDARD

MS27596(USAF)

PROCUREMENT SPECIFICATION  
MIL-M-17275

SUPERSEDES:

SHEET OF

DD FORM 672-1 (Limited coordination)

EDITION OF 1 SEP 57 MAY BE USED.

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