REVISIONS - REVISED PER TORR ZUCY

DESCRIPTION or CHK pate APPROVED

REVISED PER TDRR 25930 WEN Th

REQUIRED: 2.0 V / R A

MUST BE READABLE (WHEN ILLUMINATED) UNDER AN AMBIENT 50 FOOT CANDLE ILLUMINATION.

ISOLATION: THERE SHALL BE NO LIGHT LEAKAGE FROM LIT TO UNLIT LEGEND AREAS. PAINT SHALL NOT BE DEEMED AN ADEQUATE LIGHT BLOCK.

ELECTRICAL CHARACTERISTICS:

(1) POWER DISSIPATION:

YELLOW DISPLAYS: 0.190 AMPERES ± 1% AT 5.0 ± 0.1 VDC.

WHITE DISPLAYS: 0.225 AMPERES ± 1% AT 5.0 ± 0.1 VDC.


(3) INSULATION RESISTANCE: 100 MEGOHMS MINIMUM AT 100 VDC AT SEA LEVEL, 70° ± 10°F, 50% RH MAXIMUM, BETWEEN ADJACENT TERMINALS AND BETWEEN ANY TERMINAL AND THE CASE PER MIL-STD-202, METHOD 302.

REQUIREMENTS:

1. GENERAL:

A. INTERPRET DRAWING IN ACCORDANCE WITH THE STANDARDS PRESCRIBED BY MIL-D-70377.

B. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN ND 1015404, CLASS 2.

C. UNITS SHALL BE CAPABLE OF MEETING ALL QUALIFICATION REQUIREMENTS OF ND 1003256.

D. PART MARKING: PARTS SHALL BE PERMANENTLY AND LEGIBLY MARKED IN ACCORDANCE WITH ND 1003256, WITH THE MANUFACTURER’S NAME AND/OR SYMBOL, LOT CODE OR NUMBER, TERMINAL IDENTIFICATION AND NASA PART NUMBER (DRAWING NUMBER) AND REVISION LETTER.

E. PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH ND 1003215, CLASS 1, CODE 1.

2. ACCEPTANCE AND INSPECTION: (100%)

A. MECHANICAL AND PHYSICAL PROPERTIES:

(1) DIMENSIONS: AS DELINEATED HEREIN.

(2) SURFACE ROUGHNESS: 125 UNLESS OTHERWISE SPECIFIED.

(3) MARKING: AS SPECIFIED IN NOTES 1.D. AND 1.E. NO MARKING SHALL APPEAR ON THE AREA.

(4) PANEL COLOR AND MARKING:

COLOR, ENERGIZED: CROSS HATCHED LEGEND AREAS TO BE YELLOW, ALL OTHER LEGEND AREAS TO BE WHITE.

COLOR, UNENERGIZED: LEGEND BACKGROUND TO BE LOW REFLECTIVE, DIFFUSE, NEUTRAL GREY WHEN NOT ENERGIZED. CONTRAST BETWEEN BLACK CHARACTERS AND UNLIGHTED BACKGROUND SHALL BE BETWEEN 2 TO 4 UNITS IN ACCORDANCE WITH MIL-P-7788.

SURFACE GLOSS: THE DISPLAY AREAS SHALL HAVE A SURFACE GLOSS OF 5 UNITS OR LESS AS MEASURED PER MIL-P-7788 WHEN IN THE UNENERGIZED CONDITION.

MARKING, LEGEND: LEGENDS SHALL BE AS SHOWN ON DRAWING. CHARACTERS SHALL BE GORTON CONDENSED WITH PROPORTIONS PER ND 1003253, TYPE II, CLASS 2. THE OVERALL HEIGHT OF CHARACTERS SHALL BE .156. THE LINE SPACE WIDTH SHALL BE .020/.025. LEGEND SHALL BE CENTERED ON DISPLAY FACE PLATE. FILL SHALL BE BLACK COLOR NO. 37038 PER FED-STD-595 AND SHALL BE OPAQUE WHEN LEGEND IS ENERGIZED.

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1003254 FOR THIS DRAWING.

W789001

INITIAL RELEASE CLASS A
PER TORR ZUCY

REVISED PER TORR 25935

REVISED PER TORR 28430

REVISED PER TORR 32577

NOTE APPLICATION

APPRECIATION

APPROVED

MIT INSTRUMENTATION LAB

MANNED SPACECRAFT CENTER

HOUSTON, TEXAS

INDICATOR, ALARM

SPECIFICATION CONTROL DRAWING

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

CAPACITOR VALUES ARE IN MICROFarads

RESISTOR VALUES ARE IN OHMS

TOLERANCES ON

FRACTIONS: DECIMALS

ANGLES: DO NOT SCALE THIS DRAWING

INDENTIFICATION NO. OR NOTES

DESCRIPTION

MATERIAL OR NOTES

MOUNTING TEAMS

THRU 4 EXCEPT 3.C.(3)

THRU 4 EXCEPT 3.C.(4)

THRU 3, C.(4)

EXCEPT 3.C.(4)

EXCEPT 3.C.(4)

APPRECIATION

APPROVED

MIT

A

CODEIDENT NO. SIZE DRAWING NO.

80230 C

1006387

APPROVED

N

NO

DRAWING NO.

M4

1006387

M4

NOTES

NO SCALE NONE

APPLICATION

NEXT ASSY

80230 C

1006387

APPROVED

DATE

SHEET
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE REVISED PER GOVERNMENT PROCEDURE, IT IS TO BE IMPLEMENTED IN THE UNITED STATES COY, G. Z 8901 SYM, ZONE DESCRIPTION PR. PATE APPROVED.

REVISIONS

AR REVISED PER TORR 25935 6-7-80

AR REVISED PER TORR 32577 AF

AR REVISED PER TORR 28430 5-7-80

(A) REVISED PER TORR 28430 6-0-72

(A) REVISED PER TORR 32577 | AF

(A) REVISED PER TORR 32577 | AF

REQUIREMENTS: (CONTINUED)

3. DESIGN:

A. OPERATING LIFE: 4000 HOURS MINIMUM AT POWER DISSIPATION PER NOTE 2.8.(4) AT 70°F ± 10°F AMBIENT TEMPERATURE.

B. MATERIAL: ALL MATERIAL SHALL BE CAPABLE OF MEETING THE REQUIREMENTS OF THIS DRAWING AND EXHIBIT NO TOXICITY.

(1) PLASTIC FACE PLATE: ACRYLIC SHEET PLASTIC PER MIL-P-5425, FINISH A.

(2) CASE: ALUMINUM ALLOY.

FINISHES:

(1) ALUMINUM CASE: CHROMATE TREAT PER MIL-C-5541.

(2) PAINT SURFACES MARKED "A" AND TOP BORDER AREA (EXCLUDING THE SURFACE OF PANELS) GREY EPOXY ENAMEL PER ND 1002277 USING 1018543-003.

(3) FINAL COAT SURFACES MARKED "A" PER ND 1002277 USING 1018543-003.

(4) FINAL COAT SURFACES MARKED "A" AND TOP BORDER AREA (EXCLUDING THE SURFACE OF PANELS) PER ND 1002277 USING 1018543-003.

D. TERMINALS AND INSULATORS: SHALL MEET THE REQUIREMENTS OF ND 1002136.

E. PANEL COLORS: [REF NOTE 2.8.(4)] YELLOW COLOR TO BE AVIATION YELLOW AND WHITE COLOR TO BE AVIATION WHITE PER MIL-C-26006. COLOR COORDINATE SHALL REMAIN WITHIN THE LIMITS OF THE SPECIFIED COLOR WITHIN FROM 5.0 THRU 3.0 VDC. THE X = COORDINATE FOR THE AVIATION WHITE DISPLAYS SHALL NOT EXCEED X = .500 WHEN ENERGIZED FROM 5.0 THRU 2.0 VDC.

F. LAMPS: EACH OF THE 10 LEGEND AREAS SHALL BE ILLUMINATED BY 3 LAMPS, PARALLEL WIRING AS SHOWN IN THE SCHEMATIC. YELLOW DISPLAY LAMPS TO BE MS 24367-680. WHITE DISPLAY LAMPS TO BE MS 24377-717.

G. WHEN MOUNTED ON A SUITABLE FIXTURE, THE UNIT SHALL BE CAPABLE OF WITHSTANDING A PRESSURE OF 15 PSIA OF HELIUM, APPLIED AGAINST THE 32/ AREA, WHEN THE EXTERNAL PRESSURE IS REDUCED TO 1* HG EQUIVALENT PRESSURE.

H. THIS UNIT IS TO BE MOUNTED ON A HEAT SINK WHEN LEGENDS ARE ENERGIZED FOR PERIODS LONGER THAN TWO (2) MINUTES. A SATISFACTORY HEAT SINK CAN BE AN ALUMINUM OR BRASS PLATE 10" X 10" X 1/8" WITH A CENTERED RECTANGULAR OPENING FOR MOUNTING THE UNIT.

A. NOTE: "THIS UNIT 1S TO BE MOUNTED ON A HEAT SINK WHEN LEGENDS ARE ENERGIZED FOR PERIODS LONGER THAN TWO (2) MINUTES. A SATISFACTORY HEAT SINK CAN BE AN ALUMINUM OR BRASS PLATE 10" X 10" X 1/8" WITH A CENTERED RECTANGULAR OPENING FOR MOUNTING THE UNIT."