

AIRBORNE TIME CODE DISPLAY

FEATURES

DISPLAYS IRIG B TIME CODE

**FRONT PANEL INTENSITY
ADJUSTMENT**

**INTERNAL CLOCK, MAINTAINS
TIME IN ABSENCE OF IRIG TIME
CODE SIGNAL.**

FORM, FIT, FUNCTION REPLACEMENT FOR DISCONTINUED DATUM 9520-647.

TESTED & MEETS MIL-E-5400T

TESTED & MEETS CE102 PER MIL-STD-461E & RE102 PER MIL-STD-461E

POWER, 15-36 VDC 2.0 WATTS. SURVIVES TRANSIENTS PER MIL-STD-704A

STANDARD DZUS® RAIL MOUNT PER MS-25212



DESCRIPTION

The ITS Model 6135B Airborne Time Code Display, decodes and displays an applied IRIG B Serial Time Code signal. The unit displays the time as Hours, Minutes and Seconds on an LED display. The 6135B displays the applied time code, or in the absence of an applied signal, the internal clock. Display is six digits, HH:MM:SS.

The display intensity is user adjustable via a front panel selector switch. If there is a loss of serial time code input, the displayed colons flash at a 1Hz rate to alert the operator that the unit is operating on the internal clock.

The 6135B is housed in an aluminum enclosure, 5.75 inches wide, 1.5 inches high and 5 inches deep (not including rear panel connectors) designed for aircraft mounting. Power and the serial time code signal are applied via two rear panel connectors.

A optional front panel is available that accommodates a four (4) position Dzus® rail mount per MS-25212

The 6135B is powered by 15-36 VDC including MIL-STD-704A transients.

The 6135B has been tested and shown to meet relevant requirements of MIL-E-5400T for flight and crash safety as well as EMC in accordance with CE102 per MIL-STD-461D and RE102-5 per MIL-STD-461E.

In addition to full qualification testing, the 6135B offers form fit and functional compatibility with the discontinued Datum 9520-647 time code display.

SPECIFICATIONS

| | | |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Time Code Input | IRIG B serial time code IAW IRIG Standard 200-98. Input level .5 to 15 volts peak to peak with modulation ratio from 2:1 to 6:1. Input connector: BNC | |
| Display | Six character, seven segment, LED, Red (see options). Character Height: 0.56 Inches. | |
| Intensity | Controlled by front panel mounted, eight position rotary switch. Provides for selection of eight intensity levels. | |
| Internal Reference | TCXO $\pm 2 \times 10^{-6}$ (Active in absence of time code input) Temperature compensated crystal oscillator | |
| External Power | 15 to 36 VDC, 2.0 watts max. Survives transients per MIL-STD-704A ^T Connector: Circular MIL PT02E10-98P | |
| Temperature | Non-Operating | +95°C to -20°C ^T |
| | Operating | -10°C to +60°C ^T |
| Humidity | 95% non-condensing | |
| Package | 5.75 inches wide, 1.5 inches high and 5 inches deep (not including rear panel connectors). Standard DZUS® rail mount per MS-25212 -17 Option replaces standard front panel with a "x" front panel that accommodates 4 Dzus® fasteners. Meets. MIL-E-5400T for Explosive Decompression, Explosive Atmosphere, Temperature/Altitude, Mechanical Shock (15g) ^T , Crash Safety Shock (40g) ^T | |
| EMC | MIL-STD-461D CE102 (10KHz-10MHz) ^T MIL-STD-461E RE 102-5 (10KHz-18GHz) ^T | |
| Options | G: | Green LED Display |
| | NVIS | Night Vision Imaging System Filter |
| | -17 | Optional front panel with 4-Dzus® fasteners, Compatible w/F16 |

^T= Parameter has been tested and shown to meet. Test data available upon request



1



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