instrumentation technology systems

MODEL 6189M-10
IRIG DISTRIBUTION AMPLIFIER

FEATURES

- Ten fully isolated, transformer coupled, IRIG B Time Code outputs.
- Output load up to 75 ohms, each channel
- High Impedance IRIG B input.
- Front panel level control.
- Powered by 9 to 36 Volts DC, 4.5 watts maximum.
- Shock & Vibration per MIL STD-810E, EMI per Mil-STD-461E

DESCRIPTION

The Model 6189M-10 IRIG Distribution Amplifier provides for the distribution of an applied IRIG B time code signal to up to ten individual loads.

The 6189M-10 operates with an IRIG B input that complies with IRIG Standard 200-98. The input range is 0.5 volts peak-to-peak to 10 volts peak-to-peak. An internal input IRIG LEVEL control adjusts the input amplifier gain to accommodate the applied signal input level which sets the output level to nominal amplitude.

The ten IRIG outputs are individually buffered with isolation provided by output transformers. Each output will drive loads up to 75 ohms. All connectors and indicators are on the front panel

The 6189M-10 is housed in a shielded aluminum enclosure designed to meet the enhanced shock, vibration and EMI requirements of the E-2C Hawkeye aircraft. It is 7.5 inches long (including mounting flanges), 4.25 inches wide and 2.0 inches high. All controls, connectors and indicators are on the front panel.

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SPECIFICATIONS

IRIG B Input

IRIG B122 standard serial time code (IRIG Standard 200-98). Input level 500 mv peak-to-peak to 10 volts peak-to-peak with modulation ratio from 2:1 to 6:1. Input impedance = 10K Ohms. Input level control factory set to a gain of one.

IRIG B Output

IRIG B matches the applied input signal. Output level is set by input level and input gain adjustment. Output load up to 75 ohms. Each output fully isolated by individual transformers.

Propagation Delay

Maximum propagation delay variation (skew) between any two outputs is less than 2 microseconds.

Power Input

9 to 36 Volts DC, 4.5 watts maximum, depending on load impedances

Temperature

Operating	-20°C to +60°C
Non-operating	-30°C to +70°C

Humidity

95% non-condensing.

Package

Size

Aluminum enclosure, 7.5 inches long (including mounting flanges), 4.27 inches wide and 2.00 inches high.

Weight

1.6 lbs.

Environment:

Shock & Vibration per MIL STD-810E: Shock – Method 516.5, Procedure I, 20g all axis, Vibration – Method 514.4, Cat 4.
EMI per Mil-STD-461E: CE102, CS101, CS114, CS115, CS116, RE102, RS103