



TECHNICAL DESCRIPTION

**MODEL 6189-24
IRIG DISTRIBUTION AMPLIFIER
(24 Ports)**

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**ITS MODEL 6189-24
IRIG DISTRIBUTION AMPLIFIER**

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ITS MODEL 6189-24
IRIG DISTRUBUTION AMPLIFIER

1.0 GENERAL

The Model 6189-24 IRIG Distribution Amplifier provides for the distribution of an applied IRIG B time code signal to up to twenty-four individual loads. All outputs are fully isolated by transformer coupling.

The unit is housed in a 19 inch rack mountable aluminum enclosure, 1.72 inch high by 9.00 inch deep (including connectors). It is powered by 100 to 240 VAC 50/60 Hz.

2.0 CHARACTERISTICS

2.1 IRIG INPUT

The 6189-24 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 input IRIG LEVEL control adjusts the input amplifier gain to accommodate the variation in input level which in affect adjusts the output level. The input isolation is assured though the use of transformer coupling.

2.2 IRIG OUTPUT

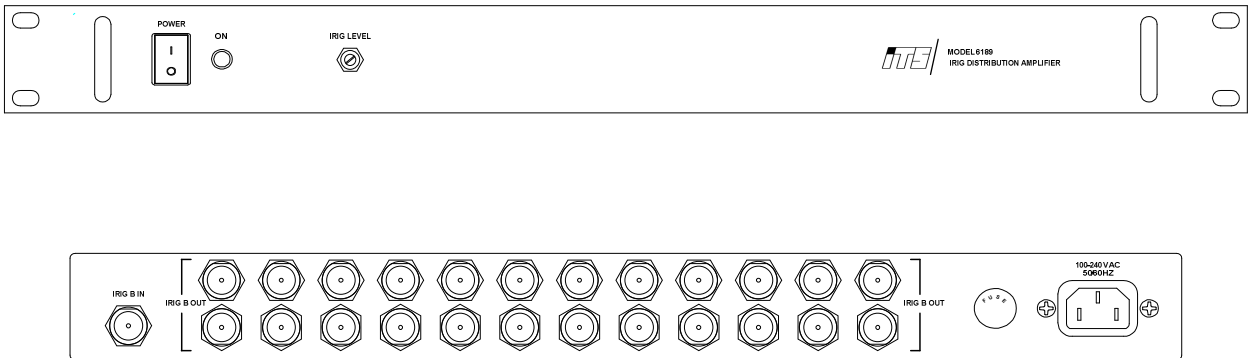
The twenty-four IRIG outputs are individually buffered with isolation provided by output transformers. Each output will drive loads up to 75 ohms.

3.0 MECHANICAL CONFIGURATION

The 6189-24 is housed in a 1U, 19 inch rack mountable aluminum enclosure, 1.72" high and 9" deep (including connectors). (See fig 1). All circuitry is on printed wiring boards. All internal connections are via mating connectors, no edge connectors are used.

All connectors are on the rear of the enclosure and all controls and indicators are on the front panel.

FIGURE 1
Model 6189-24 Enclosure



4.0 CONTROLS, INDICATORS, AND CONNECTORS

- | | | |
|-----|---------------|---|
| 4.1 | Power ON/OFF | Rocker Switch / Yellow LED Indicator-
Controls power input. LED indicator is illuminated when power is on. |
| 4.2 | IRIG B Input | BNC Connector -
Receives IRIG B serial time reference signal. |
| 4.3 | IRIG B Output | Twenty-four BNC Connectors -
Outputs 24 buffered and transformer isolated serial IRIG B signals. |
| 4.4 | IRIG Level | Front Panel Potentiometer –
Adjusts gain of input amplifier to normalize output. |
| 4.5 | Power | Three pin Connector -
Receives standard power cord. |

5.0 SPECIFICATIONS

5.1	IRIG B Input	IRIG B 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
5.2	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 is fully isolated by individual transformers.
5.3	Propagation Delay	Maximum propagation delay variation (skew) between any two outputs is less than 2 microseconds.
5.4	Power Input	100 to 240VAC, 50/60 Hz, 10 watts maximum, depending on load impedances
5.5	Temperature	
	Operating	0°C to +60°C
	Non-operating	-20 to +70
5.6	Humidity	95% non-condensing.
5.7	Package	
	Size	1U, 19 inch rack mountable aluminum enclosure, 1.72" high and 9" deep (including connectors)
	Weight	4.5 Lbs