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700 Series



Model 700
Miniature Time Code Generator

- IRIG-B generator and synchronized generator
- Compact size
- Light weight
- Internal batteries allow output of IRIG-B time code through power interruptions of up to eight hours
- Alphanumeric display

The Model 700 Miniature Time Code Generator suits applications where compact size, light weight and ease of operation are required. Generator time is set automatically using the IRIG-B synchronized generator input. Internal batteries enable the generator to output IRIG-B time code even if power is interrupted for up to ten hours. The time base of this self-contained unit is maintained by a precision crystal oscillator. A small alphanumeric display provides instant visual feedback of the 700's operation. Options are available to add video time insertion, other time codes, or parallel BCD output.

Standard features include an IRIG-B synchronized generator input for rapid synchronization to a master generator. This feature makes the 700 ideal for flightline or remote field applications. IRIG-B serial time code (1 kHz amplitude modulated carrier) is output via an SMA connector to drive data recorders, remote displays, or other peripheral timing instrumentation.

The 700 operates on 10.5 to 32 Vdc input via a 6-pin MS connector. A locking toggle switch turns power on/off. Once power is "on," synchronization to an external IRIG-B input code is automatic. A red LED lights when power is on or if the 700 system is not locked to the input code, and a green LED lights when input code synchronization is complete.

Optional features allow the 700 series to be configured to the user's specific requirements. These options include Video Time Inserter, $1x10^{-7}$ TCXO, and Parallel BCD output. Other input/output codes and AC power adapters are also available. Because of the unit's compact size, space reservations may limit the number of options that can be installed. Please consult the factory or your local TrueTime sales representative with your specific requirements.

Using the 10-digit LED time-of-year display or optional Video Time Inserter, you can preset the generator time in the absence of an external IRIG-B input code using the push-button switches and operate the unit as a stand-alone IRIG-B generator. The push-button switches also set the operating mode, display intensity, and video time insertion parameters.

TRUETIME

Specifications: 700 Series

General Specifications

Synchronized Generator Input: Synchronizes to a user-supplied 1 kHz amplitude modulated IRIG-B time code. 0.1 to 10 Vpp. Approximately 10k ohms to ground input impedance. Synchronizes to within 10 microseconds of reference code input.

LED Indicator: Red indicates power is on. Green indicates locked to IRIG-B input code. Flashes red/green when operating on internal battery.

LED Display: Seconds through day of year (DDDHHMMSS) with selectable intensity

Manual Controls: Locking type on/off switch

Left and Right Arrows, Enter: Controls for optional display, time preset and Video Time Inserter

Internal Oscillator: 10 MHz, stability $5x10^{-5}$, 0°C to +50°C

Outputs

Time Code: 1 kHz amplitude modulated IRIG-B days, hours, minutes and seconds, serial time code, 0 to 6 Vpp into 600 ohms

1 PPS: Test point on front panel

Size: 2.65" H x 3" W x 5.65 " D
(6.73 cm x 7.62 cm x 14.35 cm)

Finish: Matte black paint with white lettering

Mechanical/Environmental

Power: 10.5–32 Vdc

Battery: Provides 4 to 8 hours of operation at 25°C ambient temperature (dependent upon display operation and options)

Operating Temperature: 0°C to +50°C

Storage Temperature: -60°C to +70°C

Humidity: To 95%, noncondensing

Weight: 1.7 lbs. (0.77 kg)

Options

- *TCXO Oscillator: 10 MHz, stability $5x10^{-7}$, 0°C to +50°C*
- *Video Time Inserter: Inserted time, milliseconds through days, on user's RS-170/A composite video signal. Character size, color, background, and screen placement are user-selectable. Up to two video time inserters can be installed.*
- *Parallel BCD: Outputs 42 bits of binary coded decimal (BCD) time-of-year, milliseconds through days plus data strobe, via subminiature connector.*
- *IRIG-A time code generation in addition to standard IRIG-B*
- *IRIG-G time code generation in addition to standard IRIG-B*
- *AC Power Adapter*
- *Extended Battery: 24- to 48-hour generator operation (dependent upon options selected)*
- *Large Capacity Chassis:*
  Height: 3.75" (9.52 cm)
  Used when more than one option is installed and/or when extended battery option is installed.
- *Expanded Temperature Range: -40°C to +70°C*

Note: Because of the unit's size, space reservations may limit the number of options that can be installed. Please consult TrueTime or your local TrueTime sales representative with your specific requirements.

Specifications subject to change without notice.

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