
PRODUCT DATA SHEET



The CDG-2000 Countdown Generator has been designed to provide launch timing information for launch sites.

The CDG-2000 generates a countdown time in IRIG-CS3, IRIG-CS5 and MILA output formats.

The unit operates in two basic modes. One as a countdown generator synchronized to an IRIG B123 time code signal and the other as a slave translating an IRIG-CS3 input to provide IRIG-CS3, IRIG-CS5 and MILA outputs.

The operator has complete control over the operation of the generator using the front panel keyboard and LCD display. This is user friendly to allow operation by an inexperienced operator. A menu approach along with HELP screens guide the operator in performing tasks.

The unit can also be operated remotely using a serial port on a computer.

Technical Specifications

Inputs

IRIG-B123 1-9Vpp
 Modulation 2:1 to 4:1 modulation ratio,
 Impedance 10K ohm, transformer isolated.
 Connector BNC, isolated

IRIG-CS-3 1-9Vpp
 Modulation 2:1 to 4:1 modulation ratio
 Impedance 10K ohm, transformer isolated.
 Connector BNC, isolated

First Motion Input > 2 volts inserts FM time
 Input Input =0 volts rests FM time
 Connector BNC

Outputs

Countdown IRIG-CS3 Countdown
 Amplitude .3 to 10 Vpp, adjustable
 Modulation 1:1 to 6:1ratio, adjustable
 Impedance 600 ohms, transformer isolated
 Connector BNC, isolated

Countdown MILA Countdown
 Amplitude .3 to 10 Vpp, adjustable
 Modulation 1:1 to 6:1ratio, adjustable
 Impedance 600 ohms, transformer isolated
 Connector BNC, isolated

Countdown IRIG-CS5 Countdown
 Data Rate 4800, 9600, 19200 Baud
 Voltage Level RS-422
 Connector Triax, (BJ77)
 Voltage Level RS-232
 Connector BNC, isolated

Count/Hold 0 volts = Hold
 +5 volts (in to 50 ohms) = Count
 Screw terminals

Count/Hold Form "C" relay contacts
 Alarm Activated when counting
 .1 A @ 24 VDC
 Screw terminals

Count/Hold Audible alarm when a change in the
 Alarm count/hold status occurs.
 Front panel disable switch.

RS-232 Allows remote operation using
 Interface a serial port.

Front Panel

Countdown .6" High LED digits.
 Readout

LCD Display 4 line by 40 characters per line with
 backlighting.

Keypad 4 x 4 keypad

Alarm Disable Disables count/hold alarm

Alarm Reset Resets the Count/Hold alarm.

Power On/Off Controls AC power to unit.

Power 115 +/- 10% VAC, 50-70 Hz
 Line filter and transient suppression.

Size 19" Rack mount, 3.5"H x 12"D

Environmental 0-50 degrees C
 10% to 90% non-condensing

Specifications subject to change without notice. 082306