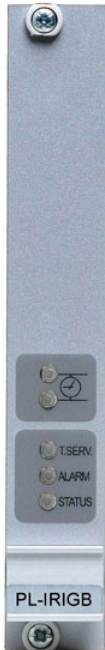


# PL-IRIG

## Serial time code transmitter / receiver module



### General description

The IRIG-B Module is a serial time code transmitter / receiver according to the standard format IRIG-B. This signal can be used to remote control clocks, magnetic recording, films, real time transmission etc.

The serial message is a "Time-Of-Year Code". Character string with BCD (Binary Coded Decimal) code for day, hour, minute and second.

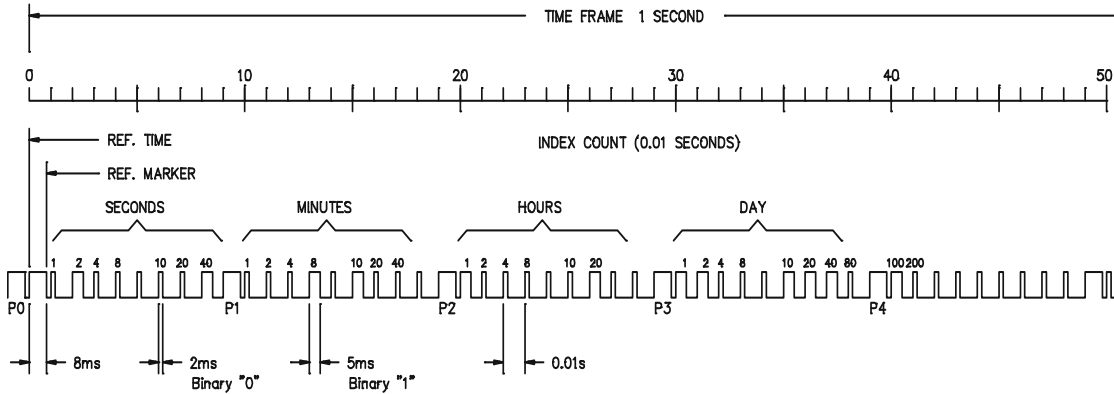
### Characteristics

- Transmission distance up to 40 000 metres.
- Point-to-point or multi-drop connection.
- Electrical isolated.
- Hot swap and Plug and Play Functions.
- Automatical take-over function.
- Integrated real time clock (RTC).
- Serial bus connection (2-wire) for communication with the Master Clock/Time Base Module (PL-TB).
- Flash for program and parameters stores all datas in case of a power failure.
- Super capacitor for real time clock function (RTC) during a power failure.

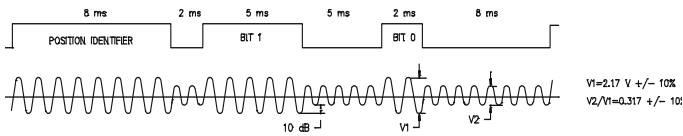
### BCD Code:

The BCD "Time-Of-Year Code Word" is pulse width modulated. The duration of a logical "1" is 0,005 seconds, and the duration of a logical "0" is 0,002 seconds.

## IRIG-B Time Code Format



## IRIG-B Time Code Format



### Technical data's:

Art.No.:

Transmitter:

123763-00

Receiver:

123764-00

Microprocessor:

Hitachi H8S/2350

Program memory:

1 Megabit (128k x 8) Flash memory

RAM memory:

1 Megabit (128k x 8) SRAM

Data memory:

100 years (Flash memory)

Running reserve, real time clock:

30 days (Back-up Super capacitor)

Accuracy (stand-alone):

+/-0,1 Sec./24 hours

Data format:

Format B123 : IRIG B, sine wave amplitude modulated, 1kHz carrier.

NFS87500 : AFNOR NFS 87500, IRIGB with date.

Reference IRIG Dokument 200-95 or Afnor NFS 87500

Type of time selectable:

Local time, Normal time (winter time) or UTC

Impedance at modulated output:

Low Z, transformer balanced, isolation 3kV.

Output level modulated

1-5Vp-p modulated in 50 ohm.

Connection:

2-polar screw terminal

Distance modulated

Up to 40 000 metres

Ambient temperature:

0°C up to +40°C

Measurements:

Width = 20,0 mm. (4TE), Height = 128,4 mm, Depth = 160 mm.

Weight:

0.15 kgs

We reserve the right to changes at any time. E 6062 E

**WESTERSTRAND URFABRIK AB Sweden**

P.O. Box 133, SE- 545 23 TÖREBODA

Tel +46 506-480 00 Fax +46 506-480 51

E-mail: info@westerstrand.se

Internet: www.westerstrand.se