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

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 reserver the right to changes at any time.  E 6062 E

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