PL-IMP/TC Impulse Amplifier Module

General description

The microprocessor controlled impulse amplifier module is equipped with an output for control of analogue- or digital clocks, time recorders and other equipment. The output can be configured to send out polar reversing synchronisation pulses or Time Code (TC) with information about year, month, day, hour and minute. Combined with the time code is a voltage feed (24VDC) for operation of intelligent analogue clocks.

Characteristics

- Fully automatic time correction from the superior Master Clock/Time Base (PL-TB).
- 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 power failure.
- Super capacitor for real time clock function (RTC) during a power failure.
- Hot swap and Plug and Play Functions.
- Transistor output protected against overload and short circuit.
- Programmable alarm limits.
- OFF-Function in case of low voltage.
- Integrated real time clock (RTC).

Time is displayed in the 6-character LED-display.
The display is also used for instructions during programming.
Programming over 6 keys.

The Time Code Amplifier Module is normally controlled by the superior Master Clock/Time Base Module (PL-TB). Should however, the synchronisation signal from the Master Clock/Time Base Module (PL-TB) be disturbed or fail for any reason, the Time Code Amplifier Module will automatically, and without loss of time take over the operation of the connected units.
Technical data:

Art. no.: 123770-00 24V DC
Art. no.: 123770-20 48/60V DC
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)
Display: 6-character, numerical LED
Accuracy (stand-alone): 0.1 Sec./24 hours
                     1/1-Min., ½-Min.- or 1/1-Sek. polar reversing

Impulse output:
• Voltage: 24V/48/60V DC
• Current: 1 A
• Impulse: 1/1-Min., ½-Min.- or 1/1-Sek. polar reversing
• Impulse duration: 1/1-Min and ½-Min. = selectable 1-10 seconds
                    1/1-Sec. = selectable 0.1 – 1.0 seconds
• Time L = Local time, N = Normal time, U = UTC

Time Code output:
• Voltage: 24V DC
• Current: 1 A
• Serial Time Code: DCF-Format
• Minute impulse: 1/1-Min. polar reversing or 1/1-Min. non polar reversing
• Time format: L = Local time, N = Normal time, U = UTC

MTBF: 195,000 hours
Measurements: Width = 60.6 mm. (12TE), Height = 128.4 mm, Depth = 160 mm.
Weight: 0.2 kgs.

We reserve the right to changes at any time.