World Time Master Clock
WDP-WT

General

Westerstrand Master Clock for World Time WDP-WT ia a fully electronic Master Clock with two outputs, one output controlling Slave Clocks and one output sending time code messages to connected World Time Clocks.

- Fully automatic correction of summer/winter time and preprogrammed calendar.
- Easy to program by simple YES/NO instructions over the easy to read 2x16 character backlit LCD display.
- To achieve absolute accuracy, radio synchronization with the transmitters of time code signals type DCF-77 (Germany), MSF Rugby (Great Britain) or GPS (Global Positioning System) is available as option.
- Electronic short circuiting protection which resets automatically, transient protection, as well as protection against overload.
- In case of short circuiting on the slave clock line, resetting of the connected Slave Clocks are automatically made.
- LED-indication of Power On, Impulse Output, World Time Output, alarm and receipt of external time synchronization.
- 72 hour impulse memory.
- After a power failure the connected slave clocks are automatically reset by rapid impulses.
- Alarm relay output with programmable alarm limits
- Built in serial communication port type RS232/485 for computer time and remote control.
Technical data

General
Article number: 123369-10
Time accuracy: ±0.1 sec./24h (at +20°C, without external synchronization)
External synchronization: GPS, DCF-77 (Germany), MSF Rugby (Great Britain), Minute impulse, Time Code TC, RS-232 or RS-485
Running reserve: Real time clock with 72 hour impulse memory

Output 1&2
Max. total load: 24V DC 2A

Output 1
Output type: Selectable 1/1 minute, 1/2 minute, second, or Time Code (TC) impulses
Type of time: Local time and UTC (Coordinated Universal Time)
Impulse length: Minute impulse: 2 sec. selectable 0.1 to 9.9 sec.
Second impulse: 0.5 sec. selectable 0.1 to 1 sec.
Max. load: 24V DC 2A
The output is equipped with short circuit protection and automatic reset

Output 2
Output type: Serial code for controlling up to 8 different time zones
Max. load: 24V DC 2A
The output is equipped with short circuit protection and automatic reset

Alarm output
Sum alarm: One-polar potential free changeover relay contact
Max. load: 230V AC 6A
Alarm types: External time synchronization, low impulse voltage, short circuit, low current, high current, power failure

Power Supply
Input voltage: 90 to 264V AC
Power consumption: 65W (max)

Environmental conditions
Temperature range: 0°C to +40°C
Relative humidity: Max. 85% non condensing
CE-approval EMC: EN 61000-6-2, EN 61000-6-2, EN50121-4:2000

Enclosure:
Housing: Wall mounted grey Polystyrene plastic with transparent front
Measurements: Height = 217mm, Width = 265mm, Depth = 135mm
Weight: 1.7 kg
Protection class: IP65

Accessories/options
- Signal receiver GPS 122980-00
- Signal receiver DCF-77 122984-20
- Signal receiver MSF Rugby 122985-20
- External Running Reserve 2.0 Ah 122998-00