



# World Time Master Clock WDP-WT



## General

Westerstrand Master Clock for World Time WDP-WT is 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:  $\pm 0.1$  sec. /24h (at  $+20^{\circ}\text{C}$ , without external synchronization)  
External synchronization: GPS, DCF-77 (Germany), MSF Rugby (Great Britain), Minute impulse, Time Code TC, RS-232 or RS-485  
Programmable alarm limits  
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  
Programmable alarm limits  
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:  $0^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$   
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