

**FEATURES:**

- Microprocessor Based
- GPS Time Reference (option)
- Serial BCD Time Reference
- Mains Synchronised Time Base
- Non-volatile Program Memory
- Impulse Clock Correction
- Synchronous-wired Clock Correction
- BCD Digital Time Code Correction
- Two Programmable Control Circuits
- Seven Day Programming
- Holiday Schedule
- Automatic Daylight Savings Correction
- Two Line LCD Alpha-Numeric Display
- Control up to 50 Synchronous Wired Clocks, 25 Minute Impulse Clocks and 100 Digital Clocks.

**OPTIONS:**

- 6500 GPS Time Reference Module
- 115VAC 60 Hz Operation

**DESCRIPTION**

The 6500-2320 Master Clock is designed to be compatible with the full range of Simplex and other Master Clock Systems, providing impulse, synchronous-wired and BCD digital time code outputs. The 6500 derives its accuracy either from the 50/60Hz mains frequency, another Simplex Master via serial BCD, or the 6500 GPS Module which provides a time and date reference to within 10ms (or better) of UTC. A programming facility is provided for the control of local electrical loads such as bells/signals, lighting, air-conditioning, etc, on a time of day basis. Timekeeping is maintained for a minimum of 20 hours in the event of power failures, and upon restoration of mains power, slave clocks are restored to correct time and the status of all control circuits are updated to the correct state. Programming and override information is entered via the keyboard aided by alpha-numeric prompts on the illuminated LCD display. Controls may be programmed for ON/OFF function or pulsed from 1-60 seconds.

**SPECIFICATIONS:**

Power requirements	: 240/115 VAC, 50/60 Hz, 30 watts
Accuracy	: Mains...dependant on power line frequency
	: GPS.....within 10ms of UTC (GMT)

- Relay Contacts : BCD.....within 20ms
- Impulse Output : Synchronous-Wired 240VAC, fused at 3 Amp
- BCD Data Output : Control Relays 240VAC, fused at 3 Amp
- Environmental : Solid State 24VDC, current limited at 1A
- Finish : +/- 15VDC (balanced) current limited at 300mA
- Dimensions : 0 - 50 C Relative Humidity (non-condensing) 95%
- : Grey Wall-mounted case - clear acrylic front cover
- : 210 mm wide, 180 mm high, 80 mm deep

## Wiring Diagram



