MC3 and WeMC3 Master Clocks



The MC3 Master Clock combined with National's clocks creates a state-of-the-art time system. The MC3 comes standard with three solid state 120VAC outputs to directly control clock circuits without the need for additional relays. These solid state outputs are capable of driving 3 amps each and incorporate zero-cross technology to handle undesirable current surges and inrush.

The MC3 uses the power-line frequency to keep accurate time eliminating the inaccuracies of crystal oscillators found in other products. The MC3 can be equipped with a Global Position Satellite (GPS) antenna (order MC3-GPS) to keep time with the National Institute of Standards and Technology NIST satellite time base accurate to one second over a million years. The web enabled version (WeMC3) is also available providing NIST Atomic Time or computer network time synchronization as well as a PC browser based configuration and event programming. Thousands of events can be programmed and easily managed through this user-friendly browser-based interface from any PC on the network or internet. This provides an ideal environment for multiple schedules of school class changes which can be modified and programmed from a central location in the district or campus.

The MC3 series master clocks combine with secondary clocks to create a maintenance-free time system automatically synchronizing the clocks and adjusting for daylight savings and power outages. The battery-less evironmentally friendly design can keep time internally for over 150 days.

The MC3 series can correct the complete line of National Time & Signal clocks as well as most clock systems by other manufacturers. The MC3 also provides the desirable National Time **On-Demand Instant clock correction** for Rotary Drive and DX Series clocks. On the WeMC3, spare circuits can be used to control bells, chimes or lighting timed events.

The MC3 will also synchronize time with a sound system, paging system, phone system, media retrieval system through LAN timekeeping or an existing master clock which can provide a synchronizing output. This universal system synchronization is easy with an optically isolated input capable of receiving synchronization pulses of 17-132VAC from other sources. The synchronization pulses can be a simple contact closure at 12:00 or one of many common clock reset formats using National's Automatic Protocol Detection algorithm. A serial port of either RS232 or RS485 is also available to communicate time information with other equipment. (Consult Factory)