



Computerized Time Clock Solutions

1. Digital Clocks synchronized with a Time Clock system

This is the most simple and economical solution to add wall clocks to a Computerized Time and Attendance system. MidWest Time Control manufactures a Digital Secondary Clock that may be corrected with the bell relay output on a Time Clock. The digital clock has an hourly correction at the 58th minute of each hour and a 12 hour correction at 5:58 AM & PM. The hourly correction is 4 seconds and the 12 hour correction is 8 seconds.

The Model numbers are:

| | |
|-----------------------|--|
| DSC-300-115-TIMCLK | 115vac power and correction |
| DSC-300-24-TIMCLK | 24vac power and correction |
| DSC-300-115/24-TIMCLK | 115vac power and 24 vac correction |
| DSC-400-115-TIMCLK | 115vac power and correction |
| DSC-400-24-TIMCLK | 24vac power and correction |
| DSC-400-115/24-TIMCLK | 115vac power and 24 vac correction |
| DSC-406-115-TIMCLK | 115vac power and correction - 6 digit |
| DSC-406-24-TIMCLK | 24vac power and correction - 6 digit |
| DSC-406-115/24-TIMCLK | 115vac power and 24 vac correction - 6 digit |

2. Master Clock Synchronizing the Computerized Time and Attendance System and Secondary Clocks

Some of the Computerized Time and Attendance clocks have the capability of adding a Master-Sync option which allows the Time and Attendance clock to be synchronized with a master clock. The input required for this is an hourly correction at xx:57:54 for 8 seconds and a 12 hour correction at 5:58:54 AM & PM for 14 seconds. This correction may be 24vac or 115vac. This is the same correction system used by the most common secondary clocks on the market. The Master Time Clocks manufactured by MidWest Time Control output this system and the wired-synchronous clocks manufactured by MidWest Time Control use this system.

The Master Clock may be:

| | |
|---------|------------------------|
| MTC-200 | 2 circuit master clock |
| MTC-400 | 4 circuit master clock |
| MTC-600 | 6 circuit master clock |

Analog Secondary Clocks:

| | |
|------------|------------------------|
| ASC-10-S21 | 115vac, Black, Surface |
| ASC-10-F21 | 115vac, Black, Flush |
| ASC-10-S31 | 115vac, Gray, Surface |
| ASC-10-F31 | 115vac, Gray, Flush |
| ASC-12-S21 | 24vac, Black, Surface |
| ASC-12-F21 | 24vac, Black, Flush |
| ASC-12-S31 | 24vac, Gray, Surface |
| ASC-12-F31 | 24vac, Gray, Flush |

Digital Secondary Clocks:

| | |
|----------------|---------------|
| DSC-300-115 | |
| DSC-300-24 | |
| DSC-300-115/24 | |
| DSC-400-115 | |
| DSC-400-24 | |
| DSC-400-115/24 | |
| DSC-406-115 | 6 digit clock |
| DSC-406-24 | 6 digit clock |
| DSC-406-115/24 | 6 Digit clock |

3. Master Clock and Time and Attendance System synchronized with Computer System

In some systems the Time and Attendance System is interfaced with a computer system. The MidWest Time Control Master Clocks may be installed with an RS232 interface to the computer system. The computer time may be set from the Master Clock or the Master Clock time may be set by the computer. The Master clock may then be used to synchronize secondary clocks and the output channels may be used for signaling or ON-OFF control.

4. Time and Attendance System interfaced with Computer System

In this case it is possible to install Digital Clocks that are synchronized from the computer via a RS485 interface. The Digital clocks run synchronous with the power line so they do not require constant supervision. A simple software program is available to correct these clocks to a IBM or compatible PC running MS-DOS.

The Model numbers are:

| | |
|-------------|-----------------|
| DRC-300-115 | 115vac |
| DRC-300-24 | 24vac |
| DRC-400-115 | 115vac |
| DRC-400-24 | 24vac |
| DRC-406-115 | 115vac, 6 digit |
| DRC-406-24 | 24vac, 6 digit |