



DIGITAL MASTER CLOCK

DBM-300-115 Intercom Master

MidWest Time Control's Digital Master Clock (DBM-300-115) is designed specifically to interface with the BOGEN Multicom 2000 Intercom system.

It provides an accurate and easy to read 4 Inch time display while synchronizing the Intercom system with a wide range of wall clocks. This is a highly accurate electronic clock with all solid state circuitry except for the electro-mechanical relays.

This clock has a set of isolated contacts that closes momentarily at 06:00 (6:00 AM). The contact closure will reset the intercom time to precisely 6:00 AM. A second set of isolated contacts is used to send correction signals to wired synchronous wall clocks. This contact closes for 8 seconds at 57 minutes and 54 seconds after the hour, except at 5:57:54 AM and PM the contact closes for 14 seconds. (Other correction time and duration signals are available, Consult the factory.) Optionally, the clock can be equipped with an RS485 signal bus to correct a system of Computers, Computer correctable Digital Clocks, Etc.



The clock is enclosed in a high impact ABS plastic housing. The Clock is surface mounted on a single or double gang outlet box. The Time is shown on a Red LED display and should be visible under normal lighting conditions from distances exceeding 50 feet.

The clock timing is line synchronous for long term accuracy. An Internal Time Base continues to maintain the correct time during periods of power failure. A NiCad Rechargeable Battery is installed for powering the internal time base.

Standard Features

- Four Digit Red 4 inch LED Display
- Line Synchronous Timing - 60 Hz
- Corrects Wired Synchronous Secondary Clocks
- Rechargeable NiCad Battery Back Up
- Manual Time Set Buttons
- 12 or 24 Hour Display
- Mating Connectors Supplied
- 115 VAC Power

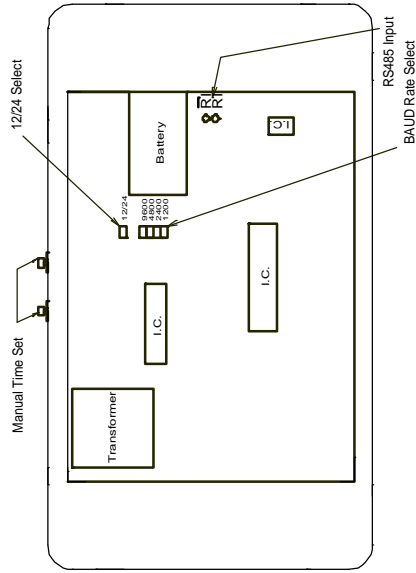
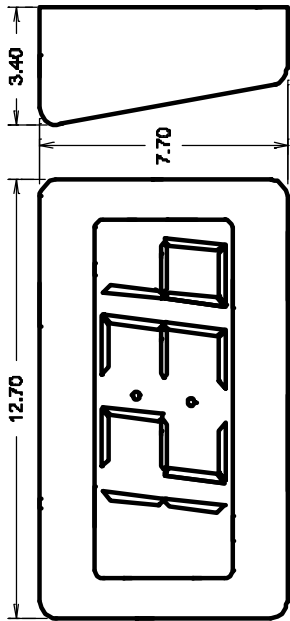
Special Order Features

- * Line Synchronous - 50 Hz
- * RS485 Output Bus
- * Six Foot Line Cord
- * 24 VAC Power
- * 230 VAC Power
- * Special Clock Correction

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Specifications

Operating Power 115 VAC 60 HZ 5 VA
 (24 & 230 VAC and 50 HZ Available)
 Weight Approx. 3 Lbs.
 Battery Reserve Approx. 8 Hrs.



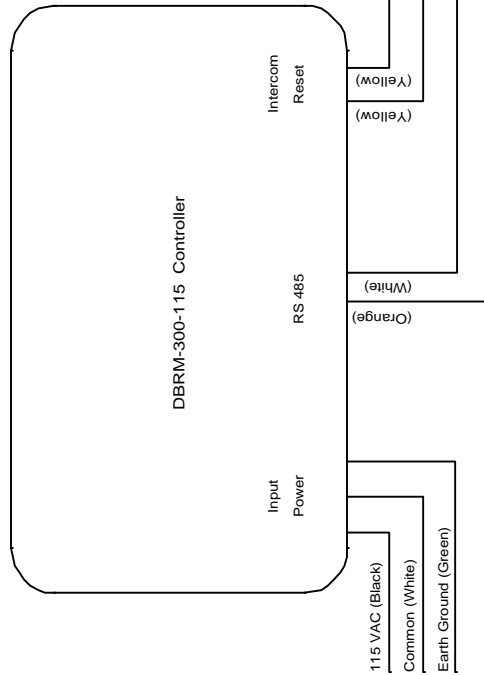
Manual Time Set - These buttons (ahead/back) are used to set the time of day.

RS 485 Terminals - This is an output terminal with the time of day sent out every other second. This data can be used for Computer systems, Digital Clocks, Etc.

Baud Rate Select - Used to select the baud rate on Models with an RS 485 bus. The baud rate must be the same on all connected equipment. Only one baud rate may be selected.

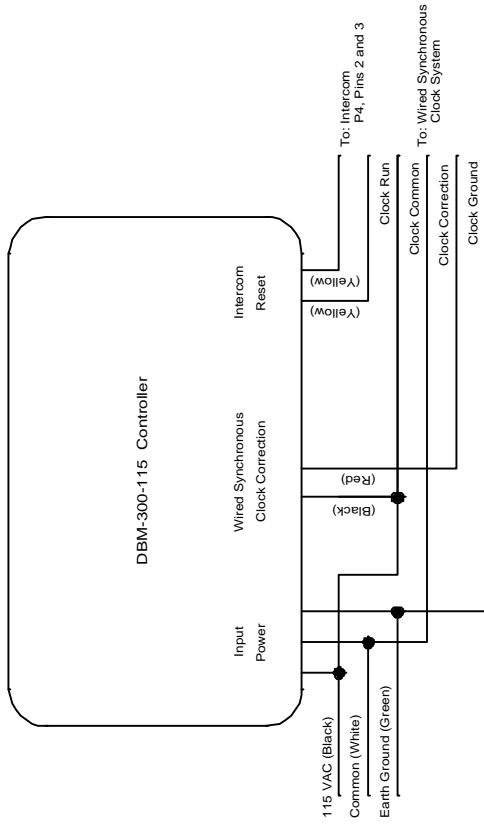
12/24 Select - Removing the jumper will allow the controller to display time in the 24 hour format (000 thru 23:59).

Battery - A NiCad Battery is supplied with this controller. For replacement purposes use only a NiCad 9 V type battery.



DBRM-300-115 Controller with RS 485 Connection

The Controller has 3 Connectors. One each for Power, Intercom Reset, and RS485 Output. The Intercom Reset signal is an isolated relay contact closure.



DBM-300-115 Controller with Wired Sync. Clock Connection

The Controller has 3 Connectors. One each for Power, Clock Correction, and Intercom Reset. The Clock Correction and Intercom Reset signals are isolated relay contact closures.