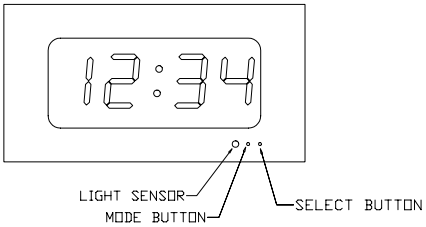
NATIONAL TIME & SIGNAL CORPORATION

DX/DU225 and DX/DU400 DIGITAL CLOCK OPERATION INSTRUCTIONS

The configuration of the DX/DU Series Digital Clocks is accessed by using the buttons located at the front of each clock. The buttons are depressed by inserting a nonconductive instrument (like a tooth pick) into the two small holes on the front of the clock case. The MODE button (left) is used to enter the various configuration modes while the SELECT button (right) is used to choose the desired setting.

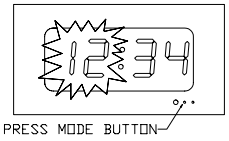


Setting Time

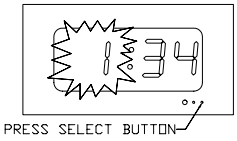
The time may be manually set at each Clock by using the mode/select buttons on the front of each unit. Setting the time on the unit is usually reserved for stand-alone installations which are not connected to a Master Clock or when an individual clock is added to the system and it is not desirable to wait for the reset from the Master Clock. Any transmission from the Master Clock will override the time set at the clock.

To set the time:

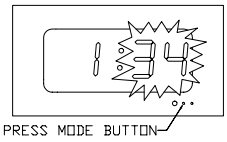
1. Press and hold the Mode Button until the hours flash on the display. (3 sec.)



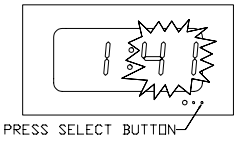
2. Press the SELECT button once for each hour increment.



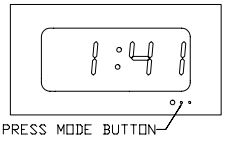
3. Press the MODE Button. The minutes will flash on the display.



4. Press the SELECT button to increment the minutes.



5. Press the MODE Button to return to timekeeping with seconds at 0.



TIP: Set the minutes value to one greater than the actual time, when the actual time reaches your setting, press the LEFT (mode) button. This will set the time to the exact seconds desired.

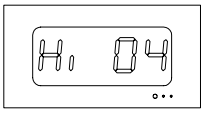
Configuration Mode:

The Configuration mode is entered by holding the MODE button until the display changes from the time to the first configuration setting (approximately 10 seconds).

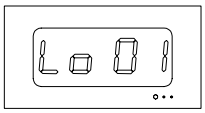
Configuration Settings:

While in the configuration mode, each configuration value is displayed and may be changed by pressing the SELECT button. Pressing the MODE button will display the next configuration value.

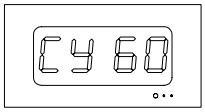
Selections and Meaning:



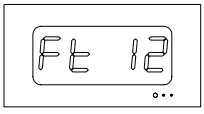
Hi xx: (where xx may be 0 to 9) High brightness setting. This represents the brightness of the display while the lights are on. *Care must be taken when using a centralized power supply that the current capabilities are not exceeded since the current requirement is increased with brightness.*



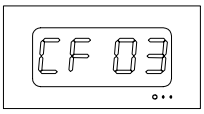
Lo xx: (where xx may be 0 to 9) Low brightness setting. This represents the brightness of the display while the lights are off. If the Auto-Dim feature is not desired, make the Lo setting equal to the Hi setting. A setting of 0 will turn off the display when the lights are off.



CY xx: (where xx may be 50 or 60) The power line frequency may be selected as either 50Hz or 60Hz. Select to match building power.

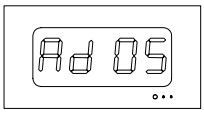


Ft xx: (where xx may be 12 or 24) The time display format may be selected as either 12 hour or 24 hour (military time).



CF xx: (where xx may be 0 to 9) Clock correction format.
CF 00: (Default) This format will operate as formats 01,02,03, 04 and 05simultaneously. The clocks will automatically adapt to any of the resets conforming to the descriptions 01-05 below. Selectany other format will disable all formats except the one selected. MC-100 Actual Time resets are always enabled.

CF 01: 25 second pulse every hour at xx:00:00 (hour reset)
25 minute pulse every 6:00:00 (12 hour reset). 24hr mode only at 6:00am
CF 02: 2 second pulse each 12:00 (12 hour reset). 24hr mode reset occurs only at 12:00am (0:00:00))
CF 03: Short interruption of the run power of at least 0.25 seconds each 12:00 (12 hour reset)**DX Default**
CF 04: 8 second pulse every hour at xx:57:54 (hour reset)
14 second pulse each 5:57:54 (12 hour reset)
CF 05: 55 second pulse every hour at xx:58:05 (hour reset)
95 second pulses every 2 minutes, first beginning at 5:05:00 and last beginning at 5:23:00 (12 hour reset)
Other similar 12 hour reset formats combining multiple hour resets between 5:00 and 5:30 may be substituted.
New or custom formats are often added. See Bulletin C-427 for a list of the compatible clocks and descriptions of new formats.



Ad xx: (where xx may be 0 to 9) Auto-Dim sensitivity level. This determines how dim the lights need to be to switch to the low brightness setting. The higher the number, the less dim the lights need to be to switch to the low setting. The best way to determine this setting is to lower the lights to the desired darkness, then adjust the Ad setting until the display switches to the low setting. The default value of 5 works for most installations.

NATIONAL TIME & SIGNAL CORPORATION
28045 OAKLAND OAKS CT. WIXOM, MI 48393
PHONE (248) 380-6264 FAX (248) 380-6268