

# 100A-MTD USER'S MANUAL

## MULTIPLE TIME DISPLAY AUTOMATIC CLOCK CONTROLLER Supplement



## INTRODUCTION

The 100A-MTD Clock Controller is firmware upgrade for the 100A controller. The special firmware allows four (4) channels of special function clocks, selected at the factory, these being;

- Clock (NORM)
- Multiple Time Zone with different daylight savings time rules (MTZC)
- Day of the week (DOW)
- Day of the month (DOM)
- MONTH

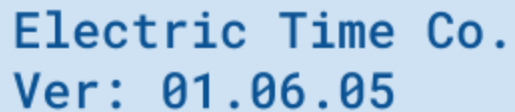
Notes:

- Channel 1 can only be MTZC or Clock (NORM)
- If the device is used as an MTZC multiple time zone control, the UTC time must be set GMT (Greenwich Mean Time).

## SUPPLEMENTAL MENUS

### ACCESSING MENUS

- Press and hold <ENTER> for (5) seconds



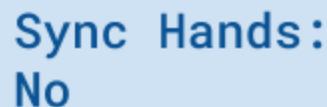
Electric Time Co.  
Ver: 01.06.05

### MAKING MENU SELECTIONS

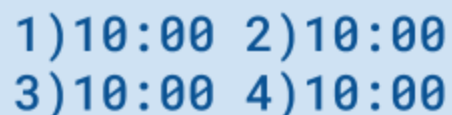
- Use **UP/DOWN** arrows to scroll through menus
- Press <ENTER> once to activate menu choices
- Use **UP/DOWN** to scroll through menu choices
- Press <ENTER> to select menu choice
- Hold <CANCEL> for (5) seconds to exit menus and return to Running display

### SYNC HANDS (NORM & MTZC)

- Allows user to sync scattered clocks
- Press <ENTER>, change answer to YES
- Press <ENTER>
- Use arrows to enter time shown on corresponding clocks. Use ENTER to select
- Select YES to save settings
- Hold <CANCEL> to reboot controller



Sync Hands:  
No



1)10:00 2)10:00  
3)10:00 4)10:00

### SYNC HANDS (MONTH/DOW/DOM)

- Allows user to sync scattered clocks
- Press <ENTER>, change answer to YES
- Press <ENTER>
- Press <ENTER>
- You can manually advance if required the Month/DOM/DOW clocks by selecting the clock with the **ENTER** key - and pulsing with the **ARROW** key.
- When complete Press <ENTER>
- Use arrows to enter time shown on corresponding clocks. Use ENTER to select
- Select YES to save settings
- Hold <CANCEL> to reboot controller

Sync Hands:  
No

Use UP Key, Adj  
to marker: ENTER

1] NORM      2] Month  
3] DOW        4] DOM

1>03:29      2>JUN  
3>SUN        4>20

## TECH MODE (SUPPLEMENTAL)

### DST OPTION (with MTZC enabled Clk1, Clk2, Clk3 & Clk4)

- Allows user to disable or modify Daylight Saving Time rule
- When ENABLED, 100A-RP will automatically reset for DST on the set month, week and day at 2 AM local time (DST Start adjusts local time forward, DST End adjusts local time backward)
- When DISABLED, 100A-RP will not reset for Daylight Saving Time
- DST OFFSET allows customization of the Daylight Saving Time Offset. (Note: This only changes offset amount, not forward or backward)
- DST Start allows user to customize DST rule change
  - Week: Sets the time change to start on the 1st, 2nd, 3rd, 4th or Last week of the month
  - Day: Sets the day the time changes. All time changes take place at 2am.
  - Month: Sets the month the time change will start

DST Option Clk1:  
Enable

DST Offset Clk1:  
60 Minutes

DST Start Clk1:  
2nd SUN MAR

- DST End allows user to customize DST rule change
  - Week: Sets the time change to end on the 1st, 2nd, 3rd, 4th or Last week of the month
  - Day: Sets the day the time changes. All time changes take place at 2am.
  - Month: Sets the month the time change will end

DST Ending Clk1:  
1st SUN NOV

**TIME ZONE OFFSET**

GMT/UTC Offsets

TimeZone Offset:  
Clk1:-05:00UTC

United States & Canada

Time Zone	UTC Offset (hh:mm)
Newfoundland (Canada only)	UTC-3:30
Atlantic (Canada only)	UTC-4
Eastern	UTC -5
Central	UTC -6 (disable DST for most of Saskatchewan)
Mountain	UTC -7 (Disable DST for Arizona)
Pacific	UTC -8
Hawaii	UTC-10 (Disable DST)

**SERVICE**

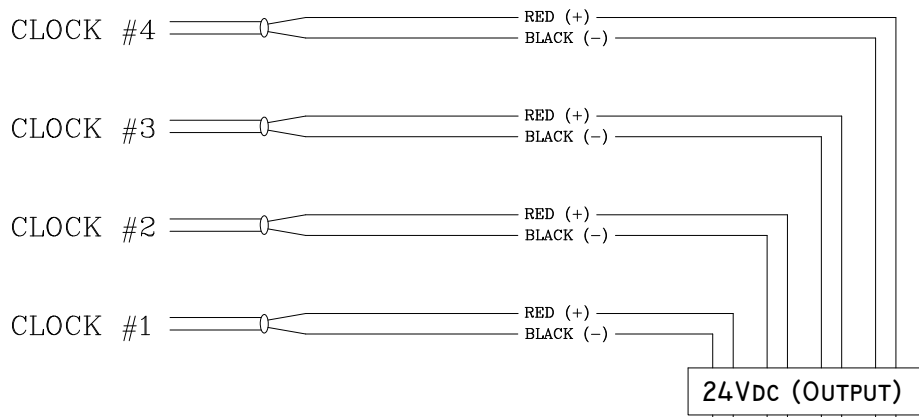
For assistance in troubleshooting problems with your 100A-MTD Clock Controller, or to request service, contact the Electric Time Company Service Department at the address shown below:

Electric Time Company, Inc.  
Service Department  
97 West Street  
Medfield, MA 02052 USA

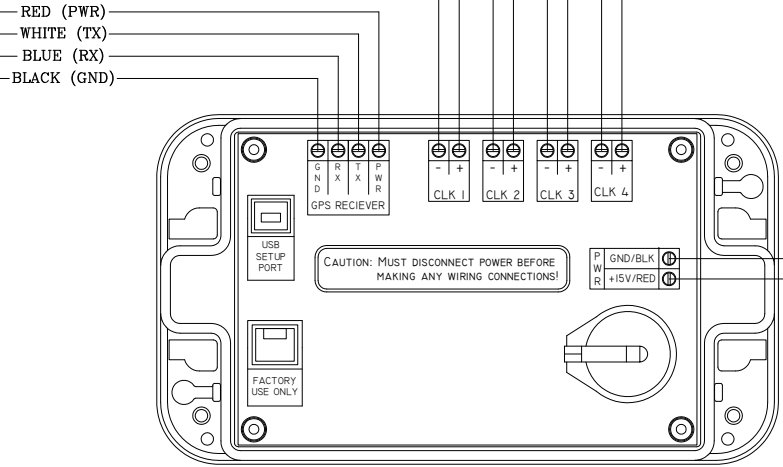
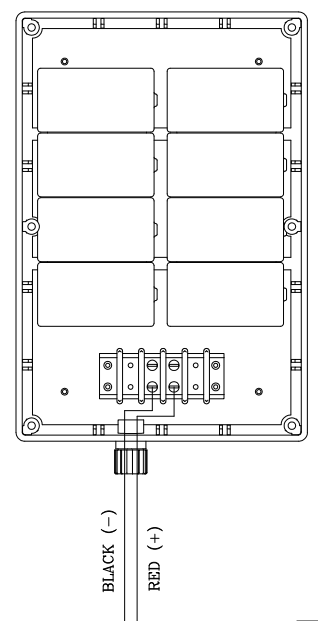
Ph: (508) 359-4396  
Fax: (508) 359-4482  
Email: [service@electrictime.com](mailto:service@electrictime.com)

## REVISION HISTORY

08-01-2017 First Release

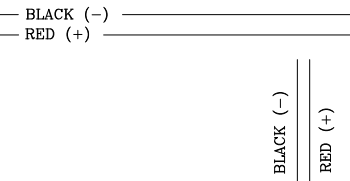


BATTERY PACK OPTION  
[CTRL-100A-BATT]

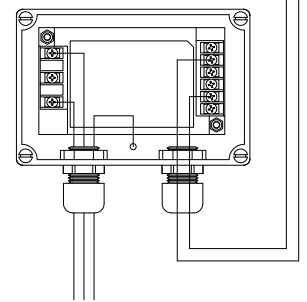


TOP COVER (BACK VIEW)

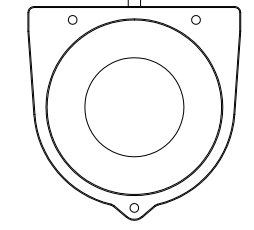
12VDC  
(INPUT)



POWER SUPPLY OPTION  
[CTRL-100A-PWR-SPLY]



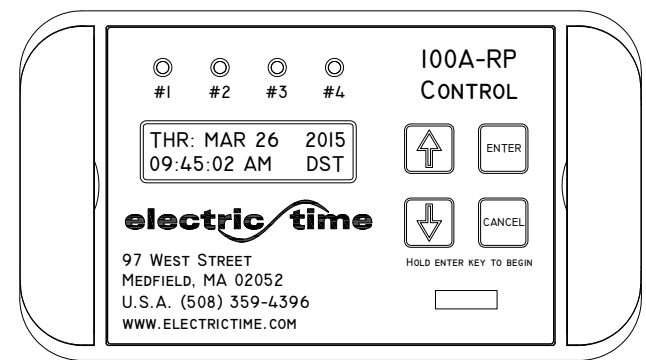
Universal Input  
(100-240Vac)



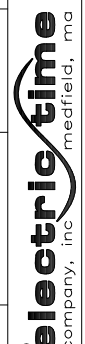
GPS RECEIVER  
(OPTIONAL)

PRIMARY FEED  
(INPUT OPTIONS)

POWER SUPPLY  
OR  
BATTERY PACK



TOP COVER (FRONT VIEW)

VIEW LASER	PATH	M:\ACAD10\A-14323.DWG			
	TITLE	Wiring Diagram/Connection Details			
DRAWING A-14323	REVISIONS				
	SCALE	DATE	DRAWN	APP'V	
	As Noted	3-19-15	DMC	TDE	
		 company, inc. medfield, ma			