

# Quick Start

The RTC Demo has 4 modes of Operation

1. A Repeating Pattern of Text Lines
2. Programmable Clock Mode
3. Programmable Date Mode
4. Programmable Clock Driven Countdown Timer

Operation is controlled by 2 push buttons, MODE and SELECT, that are located at the top of the unit. Pressing the MODE button changes the mode of operation of the unit.

## 1. Repeating Text Lines works like a scrolling ad sign.

- The RTC DEMO repeats the following text lines in order:

NXP  
PCF2123  
PCA2125  
LOW PWR  
CLOCK  
DATE  
COUNTER  
WATCHDOG

The user can edit the example software provided to easily "customize" these settings

## 2. Programmable Clock Mode works like a standard clock.

10-35-42

- The time can be set by holding the SELECT button for two seconds.
- The clock will stop and the display will flash the current digits to be set. The pattern is Hours-Minutes-Seconds, and works in the standard 24-hour mode.
- Pressing the SELECT button once increases the current digit by one, and if you hold the SELECT button it will increase the scroll speed to quickly reach distant numbers.
- Pressing the MODE button will move the user to the next programmable digit.

## PLEASE REMOVE BATTERY BEFORE PROGRAMMING

### 3. Date Mode works similar to clock mode.

03/05/07

- The date can be set by holding the SELECT button for two seconds.
- The unit will stop and the display will flash the current digits to be set. The pattern is Month-Day-Year, and will accommodate for the different lengths of each month.
- Pressing the SELECT button once increases the current digit by one, and if you hold the SELECT button it will increase the scroll speed to quickly reach distant numbers.
- Once the last digit is set, the digits stop flashing, and the unit is restarted with the new date.
- The default date upon power up is 01-01-00

### 4. Countdown Timer Mode provides a User Programmable Time

14 36

- The countdown timer can be set by holding the SELECT button for two seconds
- The timer will stop and the display will flash the current digits to be set. The pattern is Minutes-Seconds, and the timer can be set up to one hour.
- Pressing the SELECT button once increases the current digit by one, and if you hold the SELECT button it will increase the scroll speed to quickly reach distant numbers.
- Once the last digit is set, the digits stop flashing, and the unit is restarted with the new countdown timer.
- If the countdown reaches zero, the display will flash FINISH, until the timer is reset by the user, or the unit loses power.
- The default countdown time is (15 min, 00 sec).