


# Krontek SL160 Digital Clock

Users Manual

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## OVERVIEW

The SL160 Clock is designed to operate on the Krontek Syncroline two wire power / data system. This manual covers both the Standard hour, minute, second version (SL160S) and the (SL160C) Calendar version.

Connecting the clock to the A B supply lines is all that is required for the clock to operate.

There are some programmable options and setting them is described on the next page.

All settings are via two pushbutton keys on the rear of the clock, the SYSTEM key and the ADJUST key. These are marked as SYS and ADJ.

The keys operate as follows:

SYS enters System mode and sets the clock options.

**(Important** - the SYS key is required to be held down for at least 4 seconds to activate)

ADJ is used to make changes when either SYS or TIME mode is selected. The ADJ key is also used to select the display intensity during normal operating mode.

When the clock first powers up it will briefly display its software revision number in the following format "LX-YY" where X is the primary revision number and YY is the secondary. A "C" is appended for the calendar version.

Holding down either the ADJ or SYS key and then connecting power will reset the clock configuration to its default state.

The default state is:

24 hour display  
Seconds on  
Time Zone Offset: 00:00  
Daylight Savings: Off

The ADJ will auto-repeat if you hold the key down for more than 3 seconds and the repeat speed will increase after 8 seconds.

When referring to a displayed clock field in this manual the field is bracketed i.e. [SEC on].

*A note on Time Zone Offset and Daylight Saving:*

For most clock installations, the Krontek Clock Controller will provide the correct time zone and daylight saving information for your SL160 Digital Clock. No changes to the default settings should be required.

The purpose of the time zone and daylight saving settings are to facilitate an alternative time zone or "World Clock" where an array of clocks display various world time zones. In this case the Clock Controller is generally set to UTC and the individual clocks then automatically adjust the time offset and the daylight saving for the country displayed.

## SETTING THE CLOCK OPTIONS

### **The first programmable option is 12 or 24 hour format.**

Press and hold SYS, the clock will display [12Hr] or [24Hr] depending on the setting.

Press ADJ to alternate between the two settings.

Press SYS again and the clock will move to the next option.

### **The second option is Seconds or AM/PM.**

The clock will display [SEC on] or [SEC of] depending on the setting. If seconds are turned off then the AM/PM indicator will be used.

Press ADJ to alternate between the two settings.

Note: If AM/PM is selected the clock will display in the 12 hour format. This will not alter the 12/24 hour programmed setting.

Press SYS again and the clock will move to the next option.

### **The third option is the Time Zone Offset.**

The clock will display the current offset as HHMM.

Press ADJ and the offset will change in 30 minute increments from [00:00] up to [23:30] and then from [-23:30] down to [00:00].

Press SYS again and the clock will move to the next option.

### **The fourth option is Daylight Saving.**

Daylight savings settings differ slightly between the SL160S and SL160C. As the Calendar version of the clock can display more characters you may customise the daylight saving time rather than select from the list. Instructions for this are at the end of this section.

The clock will display the current offset as DLS nn, where nn is the current setting.

The daylight saving period can be selected by pressing ADJ.

Selecting '0F' disables daylight saving. Option '1' is for SL160C custom settings and is ignored on the SL160S.

The preset daylight savings times numbered 2 – 8 are:

Start	End	Where used
2 - Last Sun in Oct at 2:00am	Last Sun in Mar at 3:00am	Australia Eastern
3 - First Sun in Oct at 2:00am	Last Sun in Mar at 3:00am	Australia Tasmania
4 - Last Sun in Mar at 2:00am	Last Sun in Oct at 3:00am	Europe
5 - First Sun in Oct at 2:00am	Third Sun in Mar at 3:00am	New Zealand
6 - Last Sun in Mar at 2:00am	Last Sun in Oct at 1:00am	UK
7 - First Sun in Apr at 2:00am	Last Sun in Oct at 2:00am	USA
8 - 2nd Sun in Mar at 2:00am	First Sun in Nov at 2:00am	USA - NEW

To customise daylight saving on the SL160C you need to determine the start and end dates in a format similar to the table above. When you select option '1' and press SYS you will get the following or similar display:

St nnn  
ddd in mmm

St represents start of daylight saving, the nnn field is one of the following days: Off, Fst, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> or Lst, the ddd field is the day of the week and the mmm field is the month. Selecting 'Off' will disable daylight saving irrespective of the other settings.

Use the ADJ key to change the settings and the SYS key to proceed to the next field. After adjusting the mmm field the display will switch to:

En nnn  
ddd in mmm

Where En is the end of daylight saving. Proceed to adjust the settings as above.

Note that for customized daylight saving, changes occur at 2:00am (standard time) for start and 3:00am (daylight saving time) for the end.

Press SYS again and the clock will display normal time.