

## MODEL LYX230-12-24HR 2025 DIGITAL CLOCK INSTALLATION AND OPERATION

There is a protective plastic film covering the front face. ***Do not remove it until installation is complete.***

This clock is designed for operation from a 12 or 24v DC source only (10 to 32v). It draws about 20mA (.02 amps)

Allowable ambient temperature range -20 to + 70° C. The unit, cables and connections are not waterproof.

The LED display type is designed for indoor use, it is not designed to be readable in full sunlight.

### WIRING INSTALLATION

As usual best practise please ensure all + wiring is fused as near as possible to the voltage source (battery) and all wires run in a workmanlike manner. All connections must be secure, low resistance and protected.

There are four power wires with open wire ends, use fittings of your choice to connect to the vehicle wiring.

**RED** is to positive (+). It controls the clock display, and is usually connected to the vehicle ignition switch ACC position. This means the display will be turned off when the key is removed. If an ignition switch is not available, a separate switch could be installed.

If display off is not required, the red wire can be joined to the blue wire and both connected to an 'always on' source of +12v. Install a fuse of 1/2 or 1 amp rating.

**YELLOW** is to positive (+). It retains the clock settings in memory. It should be made direct to the battery, or some other point where +12v is always on. Install a fuse of 1/2 or 1 amp rating.

**BLUE** is to positive (+). It controls dimming of the display. This connection is optional. If dimming is required connect it via a 1/2 or 1 amp fuse to the vehicle main light switch positive or a separate switch installed by the user.

**BLACK** is to negative (-). It can be connected to the battery, the chassis if metal, or some other convenient point.

### MOUNTING

All necessary wiring should be run to the chosen position of the clock before mounting the clock.

The clock is intended to be mounted on an overhead surface, with the display facing the desired area.

To mount, first remove the 2 plastic covers on the underside of the case by inserting a small screwdriver or similar into the small moulded recess and lifting. Gently move the tool around the edge to free two tabs at the other end. Access can now be gained to allow two screws to be used in attaching the clock to the overhead. After the screw mounting is complete, replace the covers. Locate the two small tabs first and 'bend' or 'spring' the larger single tab into position with thumb pressure. Do not force unduly, rather bend a little.

### SETUP and OPERATION

This version of the LYX230 can be set to display in 12 or 24 hour format; the centre colons flash at 1 sec. intervals. It can also be set to display time only, or alternate the display between time and date display.

When first turned on, the clock goes through a self-test procedure, and all digits are displayed in sequence.

At the conclusion of the self-test the display will show a random number if the time has not been previously set.

Once the time has been set, the display will show the correct time at the conclusion of the self-test.

The self test also occurs if the clock display only has been turned off. At the conclusion the correct time will be shown if the clock had been set at a previous time.

#### **Initial Setup after installation**

Settings made at (A) and (B) below will be stored by the clock, and only lost if the user changes them.

***The NZ factory setting is for 12hr display mode, and time only display (no alternating time/date display).***

***If that is what is required, jump now to setup part (C) on the next page. To change continue at step (A).***

**(A) The first setup step** selects whether the time only will be displayed to the user, or time and date alternately. If Time and Date mode is selected the display will automatically show the time for 40 seconds, then the day and month for 20 seconds. This alternating display will continue for as long as the clock is turned on.

Press and hold SET for 3 seconds, a 1 or 2 will be displayed.

Use the + or - button to select **1 for time only display**, or **2 for time and date to be displayed alternately**.

After selection momentarily press SET again.

**(B) The second setup step** selects a display of either 12 or 24 hour mode. No AM or PM is shown in 12hr mode.

Press and hold SET for 8 seconds.

12 or 24 will be displayed.

Use the + or - button to select **12 hour** display format or **24 hour** display format.

After selection momentarily press SET again.

**(C) The third setup/settings step** involves setting the current time, and optionally date and year. These settings will be lost if the negative power to the black lead is lost or the positive main power to the yellow lead is lost. They will not be lost by removal of power to the red or blue leads only.

Momentarily press SET, the Hours figures will begin flashing.  
Use the + or - button to increment the hours figure forwards or backwards. The button does not auto-increment.  
Momentarily press SET button again.

The Minutes figures will now begin flashing.  
Use the + or - button to increment the minutes figure forwards or backwards. The button does not auto-increment.  
\* Momentarily press SET button again. (See \* below)

**If the earlier option at (A) was set to 1, the clock setting is now finished, go to Completion 1 below.**

**\* If the earlier option at (A) was set to 2, the steps below will continue on from the minutes setting at \*, and must be completed.**

The Month figure will now begin flashing.  
Press the + or - button to increment the month figure forwards or backwards. The button does not auto-increment.  
Momentarily press SET button again.

The Date figure will now begin flashing  
Use the + or - button to increment the date figure forwards or backwards. The button does not auto-increment.  
Momentarily press SET button again.

The Year figure will now begin flashing  
Use the + or - button to increment the year figure forwards or backwards. The button does not auto-increment.  
Momentarily press SET button again.

As the option at (A) was set to 2, the display will alternate between showing time for 40 seconds then date for 20 seconds. This will continue for as long as the clock has power applied.  
The setup and settings can be changed by the user at any time.  
Complete removal of all power to the clock will reset the time and date settings to a random figure, but the setup as selected by you at (A) or (B) will remain.

### **Completion 1**

That completes the settings and the display will now be showing the current time as set by you.  
The setup and settings can be changed by the user at any time.  
Complete removal of all power to the clock will reset the time to a random figure, but the setup of (A) and (B) will remain until changed by the user.

### **Time Setting Changes or Corrections**

To change a time setting, eg for DST, it is not necessary to go through the complete setup procedure from (A).  
If the current settings at (A) and (B) are as required, just start from (C) above.

### **WARRANTY**

In the event of malfunction, Cruising Electronics will, at their discretion, repair or replace the unit, providing that:  
Malfunction has occurred within 12 months from the date of purchase - proof of purchase is required  
The unit has not been exposed to any fluid, corrosive or hazardous substance, or excessive airborne particles  
The unit is returned freight paid to Cruising Electronics or their nominated agent  
Please note that under no circumstances can Cruising Electronics be held responsible or accept liability for any consequential damages or loss, incurred as a result of installing or operating this clock.