

IDI ASSIGNMENT

A Digital Clock

USER MANUAL

Wade Tregaskis

02557793

5th of May, 2005

Startup

When the digital clock is first turned on, the time will default to midnight.

Settings the Time

To adjust the time, use the rightmost three push buttons. These correspond to, from left to right, hours, minutes and seconds. Each push will increment the appropriate field by 1. While a given field cannot be decremented directly, the same result can be achieved by incrementing until the value “wraps around” - e.g. when the seconds field is incremented from 59, it will reset to 0.

Note when incrementing a particular field - e.g. minutes - that when wrapping does occur no change will be made to any other fields. e.g. if the minutes field is incremented from 59 to 0, the hours field will be unchanged. This is of course contrary to normal operation, where minutes and hours increment appropriately when lower fields wrap.

Selecting 12-hour or 24-hour Display Mode

To toggle between 12 and 24 hour display, press the leftmost push button. In 12-hour mode, AM or PM is shown as appropriate.

Selecting Display Format

There are three display formats provided by the clock - hours & minutes (HH:MM), minutes & seconds (MM.SS) and full (HH:MM.SS). To cycle between these three, use the second pushbutton from the left.

Note that hours & minutes are always separated by a colon, while minutes and seconds are separated by a period. Thus, you can distinguish between HH:MM and MM.SS mode by observing which delimiter is shown.