

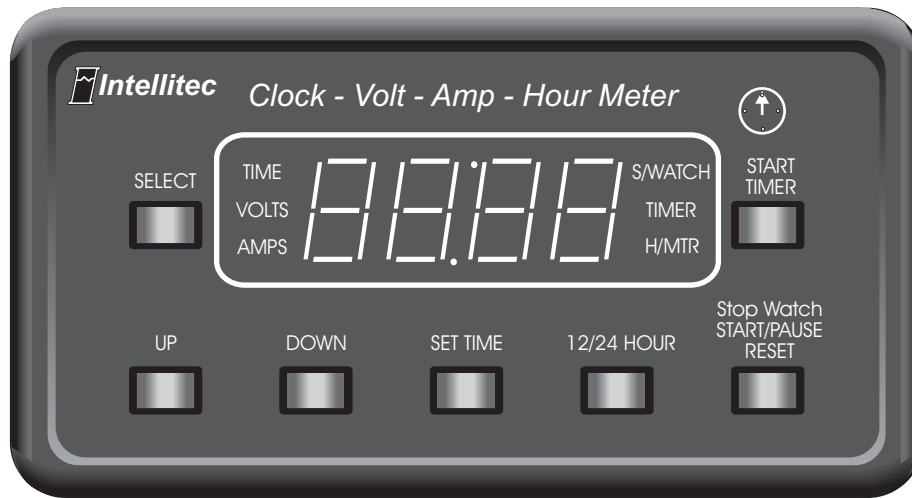


Intellitec

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Clock - Volt - Amp - Hour Meter **With Alarm Timer- Stop Watch and Voltage Alarm**

Preliminary Data Sheet



*Size 2-5/8 x 4-3/4 (Shown actual size)
Mounts with 4 screws hidden under the graphics panel*

Product Description:

The Volt Amp Hour Meter is intended to mount in the drivers area and provides the following digital displays and functions.

1. **Time of day in 12 or 24 hour format**, display turns off with ignition
2. **Vehicle voltage**, in volts and tenths of volts
3. **Vehicle current** to the nearest amp
4. **Stop Watch**, measure time to destination, etc.
5. **Timer** Programmable count down timer with 8 amp alarm output. Use alarm output as an input to Intellitec's programmable multiplex control use it to flash the lights, blow the horn, operate the Siren, etc. Great for fire service par times.
6. **Hour Meter** Time accumulates while ignition is on and is recorded in memory.
7. **2 step programmable Voltage monitor**. Can be used as inputs to Intellitec's programmable multiplex control for load management or low voltage alarms.

Functions:

Display: The display is a numeric, 4 character red LED display. In addition to the numeric display there are 7 LEDs used to Indicate what is being displayed. The display and LEDs turn off with ignition. The clock and timers continue to operate when ignition is off. A jumper can be set so that the display defaults to time of day or voltage when ignition transitions from off to on.

Pushbuttons: 7 push buttons are used to enter settings and select modes. The pushbuttons are lighted and turn off with ignition.

Clock: Time is displayed in either 12 or 24 hour formats which can be selected using the 12/24 hour push button. Setting the time of day is accomplished with the "SET", "UP" and "DOWN" buttons.

Voltage: Using the “SELECT” push button, the user can change the display from clock to voltage. Voltage is displayed in Volts and tenths of volts.

Amps: Pressing the “SELECT” button will change the display from Volts to Amps. Vehicle amps is displayed to the nearest Amp.

Stop Watch: Pressing the “SELECT” button will change the display from amps to stop watch. A momentary press of the “Stop Watch Start” button will start the stop watch. The display will begin counting up first in seconds and minutes and then in hours and minutes. Pressing the stop watch button again will pause the stop watch. Another press will restart it. Pressing and holding the button will reset the stop watch to zero. The “Select” button may be used to change the displayed information while the stop watch is running and will have no effect on the stop watch. The stop watch will continue to run when ignition is off.

Timer and alarm output: Pressing the “SELECT” button will change the display from stop watch to timer. The “UP”, “DOWN” and “Set” buttons are used to set any time up to 99 hours and 59 minutes. When the start timer button is pressed, the display will begin counting down from the set time. When the timer times out, an LED underneath the clock icon will begin to flash and the alarm output relay contacts will close for 10 seconds. The alarm output may be used as an input to Intellitec’s Programmable Multiplex Control system which can be programmed to flash lights, sound horns, etc. The relay contacts are also capable of switching as much as 8 amps. The “SELECT” button can be used to change the displayed information and will have no effect on the count down timer. The timer will continue to run if ignition is turned off.

Hour Meter: Pressing the “SELECT” button will change the display from timer to hour meter. The hour meter will display time in hours and minutes provided that the total hours is less than 100. If the total is 100 or greater, the time will be displayed to the nearest hour. Time is accumulated whenever the vehicles ignition is on. Each time ignition transitions from on to off, the accumulated time is stored in non-volatile memory. This information is retained even if the vehicle battery is disconnected.

Two Step Voltage Monitor: Two high side outputs can be used as inputs to Intellitec’s programmable multiplex control system. They can be used to signal low voltage conditions. These two outputs are factory set to come on when the vehicle’s voltage is greater than 11.8 and 12.3 volts. These voltage thresholds can be reprogrammed by the vehicle manufacturer. (Contact Intellitec for the procedure needed to reprogram the voltages)

Connections:

J1 8 pin Molex Minifit
J2 Jumper Block
J3 6 pin Molex MiniFit

Outputs:

Timer Alarm output 8 amps, two connections
Voltage alarm output, two connections

Inputs:

Ignition
+ Bat
- Bat

This is a preliminary data sheet. Specifications and features are subject to change.

Contact Intellitec for availability