

# VACS

## Vehicle Adaptive Countdown System

### Features:-

- Large display window
- Timing is vehicle adaptive (VA) when interfaced to ITS Controller
- Displays 2/3-digit 7-segment LED, using 5mm diameter Super Bright Red and Green LED lamps cluster boards
- Uses Super bright Red LED and Super bright Bluish - Green LED for Outdoor Application, where either one color is in operation each time
- Viewing distance ranging from 200m to 250m



### Technical Specifications

- Character Height : 18" (457 mm)
- Segment Width : 40mm
- Wave Length : 630nm for Red LED  
505nm for Yellow - Green LED
- Luminous Intensity : 150cd / m sq. @ 10cm Distance from the surface
- Power Supply : 230VAC, 50 / 60 Hz
- Activation Signal : RS232 / 10 bit digital
- Cabinet Size (2 digit) : 610 (H) X 787 (W) X 120 (D) mm  
24" (H) X 31"(W) X 4.7" (D)
- Operating Temp. : 0 to 70 deg. Celcius
- Storage Temp. : -20 to 70 deg. Celcius
- Casing Type : Epoxy Coated Mild Steel  
Weatherproof Casing
- Night Dimming is done through CPU control
- Countdown Timing Preset is control by CPU



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### Minimum Requirements

General requirements are as follows: -

- Vehicle Adaptive Countdown must be interfaced to an ITS Controller
- Type of mounting poles specified
- Site visit to determine number of countdowns, suitability, placement and type (2 or 3 digit) conducted

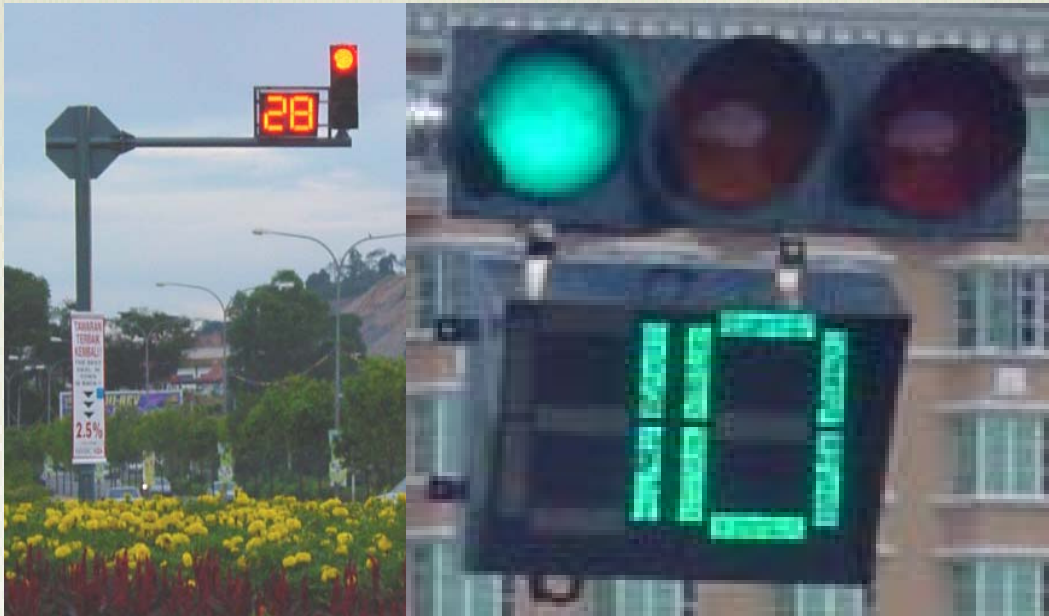
### Package Contents

Generally consists of: -

- Countdown display unit (2 digit / 3 digit)
- Countdown driver, CPU upgrade modules
- Interface cabling and mounting overhead/special poles
- Can be delivered with a complete controller upgrade if non-ITS controller is being used.

# VEHICLE ADAPTIVE COUNTDOWN SYSTEM

## Promoting Smooth and Efficient Vehicular Flow



Traffic accidents also increase proportionately with the increase in traffic volume and this causes financial losses. One of the solutions to reduce accidents and increase signaling efficiency is by using the digital countdown system with the traffic light at road intersections. Countdown systems have become a necessary component of effective traffic intersections. The countdown system is a display showing a 2 or 3 digit numeric identifying the number of seconds remaining for either a green (traffic movement) or a red (traffic halt) light. This display is powered by super-bright LEDs with a visibility range of more than 200 meters and works in synchronous with the current display of the traffic light. The countdown system has an advantage of flexible functions, vehicle adaptiveness (VA), skip phase feature, cutting edge design and low maintenance operation. The main feature of the countdown system is that it is vehicle adaptive, unlike most

conventional countdown systems which operate on fixed time, time of day or multiplan timing. The adaptive countdown system will account for increase and decrease in traffic volume at a particular intersection. This adaptive feature means that the countdown interfaced to the ITS controller using an intelligent vehicle volume analysis and trending algorithm shall produce a desired response to provide sufficient green time to the road user dynamically. It is therefore a unique countdown system that is responsive to traffic conditions and vehicular flow. If traffic signaling is vehicle adaptive, the duration of the green time is affected by the vehicular flow on a particular approach and affected by the demand from any opposing flow of vehicles. This demand of flow from the opposing direction is detected by a vehicle count using loop sensors.

Available in 2 digit or 3 digit numeric displays

Features 7-segment LED displays using 5mm super bright red or green LED's.

Timing is vehicle adaptive unlike conventional count-downs

Can be interfaced to ITS Controller and networked to a traffic control system (MITS)

## PPK Technology Sdn Bhd