

Area Parking Management Signs



Excel Technology Group (ETG) has designed and provided signs to road management authorities which assist motorists in identifying and selecting appropriate parking venues with free space prior to arriving at the destination. Strategic placement of these signs improves local area traffic management by reducing the number of 'circulating' vehicles attempting to find limited parking space and avoiding unnecessary congestion associated with vehicles queued to enter parking stations.

Displays indicate free space or available capacity in many forms suitable to the area. This display ranges from a simple barometer type display with integrated RED and GREEN levels to full text message displays which advise motorists of capacity and or alternative parking station opportunities.



Signs utilise LED technology from reputable LED manufacturers. Control circuitry utilises solid state control systems, environment monitoring, power management and offer a range of communication interfaces. These signs range from conforming variable parking regulatory signs with graphic numerals, to parking station capacity barometers.

Functional Applications

- Sign design featuring integrated electronic variable messages and fixed passive background
- Electronic messages composed of ICONs and text format to maximise motorist awareness in the shortest possible time
- Fully dynamic operation with synchronised coordinated total area message change and display

Design Applications

- Variable regulatory parking signs – event coordinated
- Area parking management displays
- Parking station capacity indicators
- Local area traffic congestion monitoring and indication signs
- Event coordinated advisory destination signs
- Passenger 'drop-off and collection' advisory signs





Custom Design Parking Management Signs - Specific to Client Requirements

- Engineering design of circuit cards
- Engineering CAD printed circuit board layout
- Integrated mechanical engineering design – housing and support
- Engineering software development of control system
- Engineering development of interface software
- Engineering development of manufacturing test procedures
- Engineering development of field maintenance procedures
- Engineering development of diagnostic software and test procedures

Design Specification Parameters

Physical Display Options

- Panel design offering maximum flexibility in style, size, visibility and maintenance options
- LED Pixel configuration panels with pixel's from 1 LED to 8 LEDs
- Display format in full graphic or alpha-numeric presentation
- Displays in relevant ICON presentation
- Display size – user specified
- Display weight - dependent on sign configuration, size and choice of power supply options
- Display mounting configurations include fixed roadside, trailer, and vehicle mounted display mechanisms

Power Supply Options

- Operational voltage: 12 volt DC or 240 volt AC
- Current consumption depends on the number of LEDs

Communications Interface Options

- Remote command protocol for display control
- Remote monitoring of sign operation
- Remote loading of messages
- Interface wire and wireless friendly

LED Visibility and Light Output management

- Yellow in colour as per CIE 1931 Chromacity (590 nms)
- Type of LED: Yellow AlinGap, output luminous intensity 3.2
- CD/LED (daylight operation)
- Customer nominated pixel composition

Display Intensity

- Daylight mode = LEDs can be brightened to increase visibility
- Night time mode = LEDs can be dimmed to eliminate “flaring” (overly bright) and reduce current consumption
- Dimming facility – 8 levels, maximum output at 1100lux