

Variable Message Sign Custom Design



Excel Technology Group (ETG) has designed and provided several limited production/prototype design version variable message signs and displays. These signs range from conforming variable parking regulatory signs with graphic numerals, to parking station capacity barometers.

ETG has designed signs for traffic management, traffic control, area parking management, driver information and passenger information applications. ETG will provide a 'pre-production' version with all relevant manufacturing information to enable the customer to seek quotations for a manufacturing run of a specific sign. This work includes EMC pre-compliance design testing.



Signs utilise LED technology from reputable LED manufacturers. Control circuitry utilises solid state control systems, environment monitoring, and power management in battery/solar panel applications.

Design Applications

- Regulatory parking signs
- Area parking management displays
- Parking station capacity indicators
- Traffic congestion monitoring and indication
- Driver advisory signs
- Passenger advisory / information signs
- Hazard warning signs
- Temporary warning signs
- Heavy vehicle caution signs
- HOV arrival signs
- HOV 'docking' and platform arrival advisory signs
- Pedestrian management and control displays
- Low current consumption battery





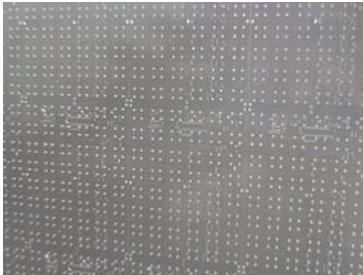
Custom Design Signs include

- 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 Options

- Panel design offering maximum flexibility in size, maintenance and visibility
- LED pixel alpha-numeric/graphic panels with pixels from 1 LED to 8 LEDs
- Display size – user specified
- Display weight – dependent on sign configuration, size and choice of power supply
- Trailer, vehicle and fixed display mechanisms available



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

Light Output

- 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 1100lx

EMC Compliance

- C Tick precompliance
- Optional complete compliance testing