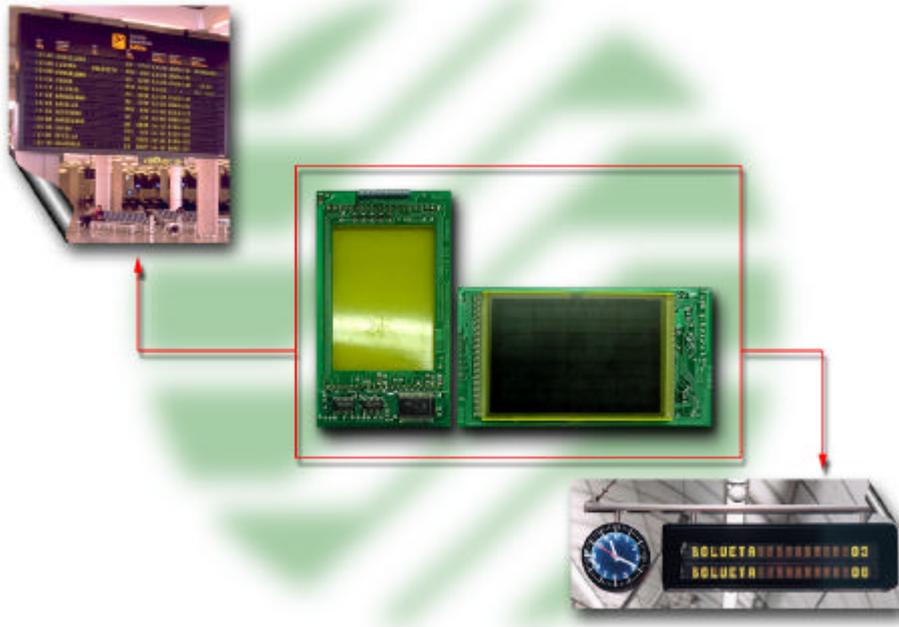


LCD PANEL



Public information panels installed in strategic places in airports, offer to passengers and airport personnel fast, reliable, flexible and continuous information.

The size and composition of the panel should be decided according to the topology and needs of each particular airport, as well as to its information needs.

DISPLAY MODULE

Each display module is manufactured around a Liquid Crystal Display device of 62x40mm.

Each display is capable of generating characters and symbols by using a 141 dots. Each dot can individually block or let pass the light from the integrated backlight, forming light characters over a black background.

The main characteristics of these modules are:

- Character Height: 62 mm
- Character Width: 40 mm.
- Reading characteristics (Latin characters):
 - 30 to 45m when looking from the perpendicular to the display
 - 25 to 35m when looking from 45° out of the perpendicular to the display
 - 15 to 25m when looking from 60° out of the perpendicular to the display
- Front access to the display modules. Full inter-changeability

- Working Temperature: -10 to +60 Celsius
- Working Humidity: 0 to 90% (no condensation)
- Low maintenance. Average life of each display module: 10 years of continuous operation
- Low energy consumption: 150µA per display module

PANEL CONSTRUCTION

Aluminium individual modules make the panels. Combining these modules to have the required size and external form does the final assembly.

Each character line can be individually tilted in its vertical orientation to improve the view ability of big panels (several meters height)

The number of lines, the size of the characters and the number of character per line mainly determine panel size. The deepness is always 140mm

OPERATIONAL MODES

- Normal
- Roll Up / Roll Down
- Character flickering / flashing
- Character swapping (2)
- General Information
- Scrolling (Last Line)

LCD PANEL

BACKLIGHT

Liquid Crystal Devices are light transmissive devices by nature, requiring a source of light in their back for a proper operation.

A clever mechanical design of the panel, allows an easy replacement of the light sources (Fluorescent Lamps).

This backlight system operates at 220V at 50Hz.

TECHNICAL SPECIFICATIONS

As the panel is a modular assembly of individual display modules, the main characteristics of the full panel are the same than the modules

- Display Modules and control unit power Consumption (static display) for 8 lines of 45 modules: 4 VA
- Display Modules and control unit power Consumption (when information is changing) for 8 lines of 45 modules: The same than in static display
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- Backlight power consumption: About 50W for 8 lines of 45 modules
- Main Power: 220 V, 50 Hz.
- Character Height: 62 or 100 mm.
- Reading characteristics (Latin characters):
 - 30 to 45m when looking from the perpendicular to the display
 - 25 to 35m when looking from 45° out of the perpendicular to the display
 - 15 to 25m when looking from 60° out of the perpendicular to the display
- Working Temperature: -10 to 60° Celsius
- Relative Humidity: 90% non condensation