



## Specification Document - LCD Clocks

October 03

### LCD SPECIFICATION

The Liquid Crystal Displays (LCD) offered for use in the Clocks are Vultron CLEARSIGN™ LCDs. The display specification is as follows:

- Transflective LCD technology offering excellent viewability in a high ambient lighting environment.
- Yellow characters on a black background.
- 38 segments per character using a 5x3 character matrix with pixel subdivision, for upper case only characters, including all numbers.
- High legibility character shapes.
- Excellent stability against fade and chemical breakdown.
- $\pm 70$  degree viewing angle in horizontal and vertical planes.
- Contrast ratio of 40:1.
- Operating temperature range  $-25^{\circ}\text{C}$  to  $75^{\circ}\text{C}$ .
- 196 to 264 Vac operation, 50Hz.
- Protected against transients and interruption of supply.
- Designed for high reliability and long life with minimal maintenance.
- Compatible with EMC generic standard EN5008-1 (EN55022B).
- Compatible with DDA and DPTAC legibility recommendations.

#### Display character heights

170mm  
105mm  
83mm

#### Viewing distance

80 metres  
50 metres  
40 metres