COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

CD200/300RGB

COUNTDOWN DISPLAY

Countdown display board is designed to provide information for the drivers of the vehicles on time remaining of the red amber and the green aspect of the traffic lights.

The device is a two digit Countdown having the capability to display value of the Green, Amber and Red aspects.

Electronic display can be used as part of the traffic lights managed by controllers of any type, since to get information on the duration of the signal lights the method used are:

- *STAND ALONE MODE*- Measuring the time of the availability of the supply voltage on the green amber and red traffic light aspects
- *DYNAMIC MODE*- taking data to be displayed from the controller via a RS485 communication line

The device is supplied via the signal Red/Amber/Green at 230 Vac emitted from the Traffic controller outputs to command the related vehicular signal head.

The apparatus is constituted by two unit

- Countdown Logic and Display unit
- Supply unit

The display and logic unit part is realised by :

- One p.c.b complete of all logic elements on one face and A two seven segment digit done by full colour RGB led on the other face
- The supply unit is done by one power supply dedicated to supply the logic and the Led

LUMINOUS INTENSITY

The ambient light is measured by a built-in photodiode and the luminous intensity of the display is automatically reduced at 50% during the dark period (ambient light under 1000 Lux).

UNIT CONFIGURABILITY

The unit is configurable via its RS422 com port by which via a customized software can be settled:

- The Operating Mode
- The functionality of the display

OPERATING MODE

To work properly the unit must operate on junction working in fixed cycle or any way related to a traffic light aspect having fixed timing.
The device can be settled to operate in two different mode:

- Self Learning mode
- Dynamic mode

The main difference between the two operating mode is that in case of Junction operating on different plan timing, into the first one, when the plan change, you will have a wrong display for one cycle, while into the second one this will not happen.

The value displayed can be different in function of the operating and configuration mode settled.

The display of the value will start with a configurable delay (tenth of second) in respect to the related signal head aspect On status, to respect the following clauses:

- The signal head aspect must be relevant as signalisation to the drivers
- The unit must stay OFF in case of intervention of the safety circuitry of the traffic controller.

In case of displaying values higher than 99'', the unit can be configurable to display one of the following aspect for all exceeding time:

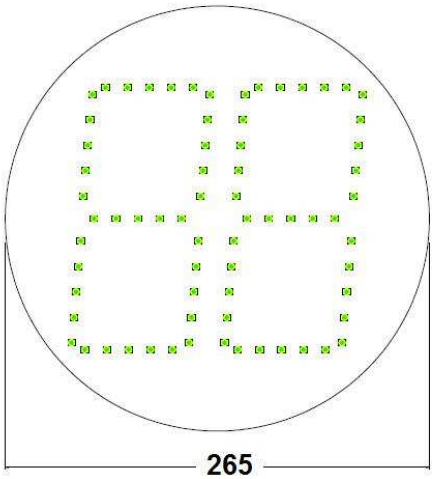
- Nothing
- 99 blinking
- two central segment blinking

In case of flashing condition on related traffic light, the display will stay OFF.

During display of vehicular green flashing aspect, the value can be shown as normal or blinking at a 2Hz frequency.

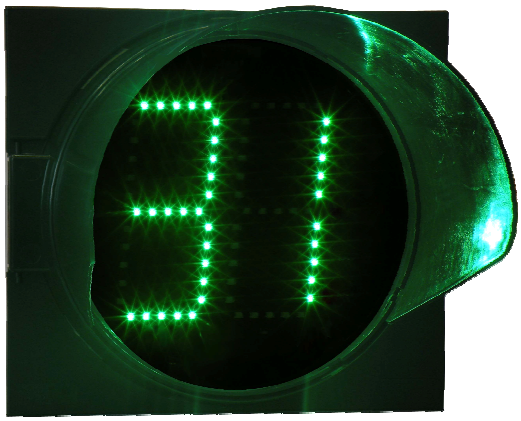
DISPLAY UNIT

Time display	CD200RGB	CD300RGB
Modularity	200mm	300mm
Character dim.	70x130mm	90x190mm
Led qty	25+25 RGB	35+35 RGB
Red colour	620nm	620nm
Green colour	525 nm	525 nm
Amber colour	575 nm	575 nm



CD300RGB

EXTERNAL HOUSING



Protection degree : IP55
Material: Polycarbonate
Door: Rapid clutch
Visor: Rapid clutch
Colour: Black or Green on request

ENVIRONMENTAL AND ELECTRICAL CHARACTERISTICS

Supply: 100 Vac to 260 Vac
Consumption: >3W < 11W
Operating temperature: -40°C to + 80 °C

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