

## VMS-RGB-10A-Tx High Intensity Multi-Level Variable Message Signs

### Product Description

This high intensity, full colour LED sign is fully compliant with European VMS standard EN12966 offering bright, clear messages indicating available spaces and status messages. The sign can be used in standalone counting solutions with Nortech's NCT100 counting modules, in full Parking Count Management Systems alongside Nortech's NCT200 counting modules and NorParc Count Management Software, and for shared occupancy display with Nortech's shared occupancy controllers (CPC202 and CPC204).

The VMS-RGB-10A-Tx uses low profile LED matrices and are each capable of displaying count values of up to 5 digits with the option to display 'FULL' when a count value falls below 1. The display options are set via the counting/control module. Display settings include the display colours and the options to replace the count value with 'OPEN' or 'SPACE' when the count value is 1 or more.

Each level display has 10cm high characters and can be viewed at distances of up to 50 metres with a 30° horizontal viewing angle. The luminance of the signs can also be manually adjusted to match ambient light levels. The high intensity setting is ideal for regions with extremely strong sunlight. The default setting provides automatic luminance adjustment using the built-in ambient light sensor.

Depending upon the application, up to eight individual displays can be connected on a single RS485 bus, each displaying a different count value.

There are two VMS-RGB-10A-Tx options available as standard for housing either 1 or 2 individual count displays.

Where more than two count displays are required in a single housing, the standard model (VMS-RGB-10A-STD) is suitable for mounting in a third-party totem.

### Features

- ▶ Large 5-digit full colour LED display
- ▶ Excellent LED optical system meets EN12966 standards and provides high optical performance
- ▶ Automatic luminance control option
- ▶ Ideal for application where there is strong sunlight
- ▶ Very low power consumption
- ▶ Robust weatherproof aluminium housing (IP65)
- ▶ Selectable display of count values and/or status messages
- ▶ Up to 8 VMS's can be connected to a single counting module
- ▶ Fully compatible with Nortech count management systems
- ▶ Available with one or two individual count displays



### Specifications

#### Electrical

Supply voltage: 110-220vac

#### Environmental

Operating Temp.: -25°C to +60°C

#### Physical

Display type: 10mm pitch pixel array - SMD with optical lens. Count values/status messages can be displayed in red, green or amber.  
Display Resolution: 48 x 12 pixels

LED brightness: Red > 3100 cd/m<sup>2</sup>  
Green > 3720 cd/m<sup>2</sup>  
Yellow > 7400 cd/m<sup>2</sup>  
White > 12400 cd/m<sup>2</sup>

Viewing angle: B6 (30° horizontally)

Viewing distance: 6 to 50 metres

Enclosure: Aluminium & RAL Black 9005 Coating (IP65 rated)

Number of Displays: VMS-RGB-10A-T1: one, VMS-RGB-10A-T2: two

Dimensions (mm): VMS-RGB-10A-T1: 470 x 1300 x 150 (HxWxD)  
VMS-RGB-10A-T2: 640 x 1300 x 150 (HxWxD)

Display size (mm): 480 x 120 (~10cm high characters)

Weight: VMS-RGB-10A-T1: 20.5 KG  
VMS-RGB-10A-T2: 31 KG

Cabling: Fitted with a 5-metre, 2-pair screened cable, 22 AWG and 5-metre power cable

Luminance control: Built-in ambient light sensor

#### Operational

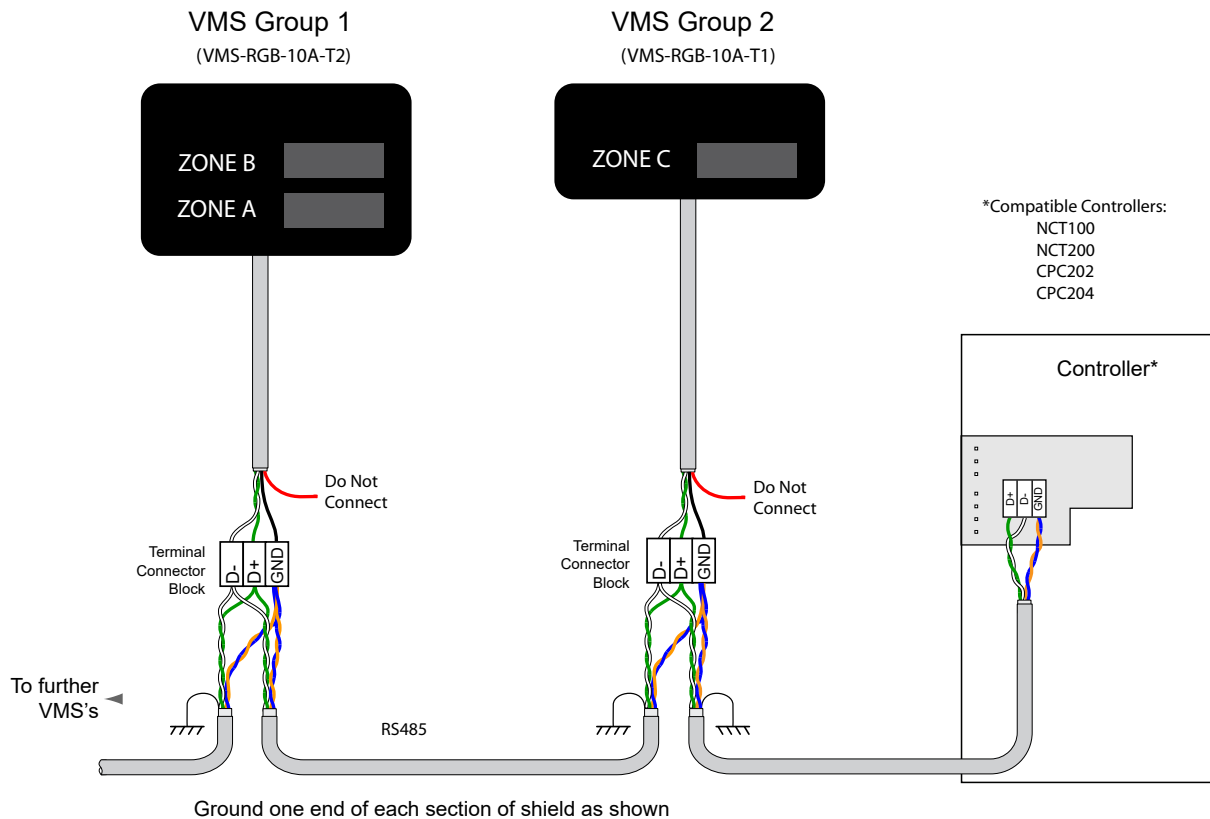
Display Function: Selectable up to 5-digit count, 'FULL', 'OPEN' or 'SPACE'.  
Default setting: positive count values displayed in green, zero and negative values displayed as 'FULL' in red.

#### Inputs

Count Bus: RS485 bus from a counter module or shared occupancy controller. Delivering up to 4 count values (NCT100, CPC202 or CPC204) or up to 8 count values (NCT200). The count value that is displayed on each sign is determined by a node value assigned to the sign during installation.

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## Recommended RS485 Wiring



\*Compatible Controllers:  
 NCT100  
 NCT200  
 CPC202  
 CPC204

## Ordering Information

**VMS-RGB-10A-T1** Single-level sign housing with one high Intensity RGB LED sign with 10cm high characters. Fitted with rear mounting strips for post mounting.

**VMS-RGB-10A-T2** Multi-level sign housing with two high Intensity RGB LED sign with 10cm high characters. Fitted with rear mounting strips for post mounting.

**VMS-RGB-WB-TX:** Wall mounting bracket for multi-level VMS housing

## Product Compatibility

**NCT100** Standalone 4 channel counting module with VMS control bus. Capable of driving up to 4 individually addressable VMS.

**NCT200** 4 Channel counting module with VMS control bus and PC communication bus. Capable of driving up to 8 addressable VMS.

**CPC202** Standalone shared occupancy access controller for up to 2 groups.

**CPC204** Standalone shared occupancy access controller for up to 4 groups.

## Complementary Products

**NorParc** Car park count management software.

**NP-XXX** Norparc counter license (per physical counter configured)

**NorVenue** Venue count management software.

**VM-XXX** NorVenue counter licence (per physical counter configured)