VMS-RGB High Intensity Full Colour Variable Message Signs

Product Description

These high intensity, full colour LED signs are designed to be used both in standalone counting solutions with Nortech's NCT100 counting modules, and in full Parking Count Management Systems alongside Nortech's NCT200 counting modules and NorParc Count Management Software, as well as for shared occupancy display with Nortech's shared occupancy controllers (CPC202 and CPC204).

The signs use low profile LED matrices and are each capable of displaying 4-digit count values 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 either 'OPEN' or 'SPACES' when the count value is 1 or more.

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.

The VMS-RGB10 has 10cm high characters and the VMS-RGB20 has 20cm high characters. The signs can be viewed at distances of up to 30 metres and provide a wide horizontal viewing angle.

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

Features

▶ Large 4-digit full colour LED display

▶ Choice of 10cm or 20cm high characters

▶ Wide viewing angle

▶ Automatic luminance control option

▶ Ideal for application where there is strong sunlight

▶ Selectable display of count values and/or status messages

▶ Suitable for outdoor use (IP65)

▶ Up to 8 VMS's can be connected to a single counting module

▶ Fully compatible with Nortech count management systems

Specifications

Electrical
Supply voltage: 110-220vac (standard), 12-48vdc (optional)

Environmental
Operating Temp.:   -40ºC to +80ºC

Physical

Display type:	8mm pitch RGB pixel array. Count values/status messages can be displayed in red, green or amber.
Display Resolution:	VMS-RGB10: 64 x 16 pixels VMS-RGB20: 96 x 32 pixels
LED brightness:	6000 cd/m^2
Viewing angle:	>110°
Viewing distance:	6 to 30 metres (ideal)
Enclosure:	Aluminium & RAL Black 9005 Coating (IP65 rated)
Dimensions (mm):	VMS-RGB10: 592 x 208 x 120* (W x H x D)
	VMS-RGB20: 847 x 336 x 120* (W x H x D)
Display size (mm):	VMS-RGB10: 512mm x 128mm (~10cm high characters)
	VMS-RGB20: 768mm x 256mm (~20cm high characters)
Weight:	VMS-RGB10: 5.5Kg*
	VMS-RGB20: 11Kg*
Cabling:	Fitted with a 3-metre, 2-pair screened cable, 22 AWG.

Operational
Display Function: Selectable 4-digit count (-9999 to 19999), 'FULL', 'OPEN' or 'SPACES'.
Default setting: positive count values displayed in green, zero and negative values displayed as 'FULL' in red.
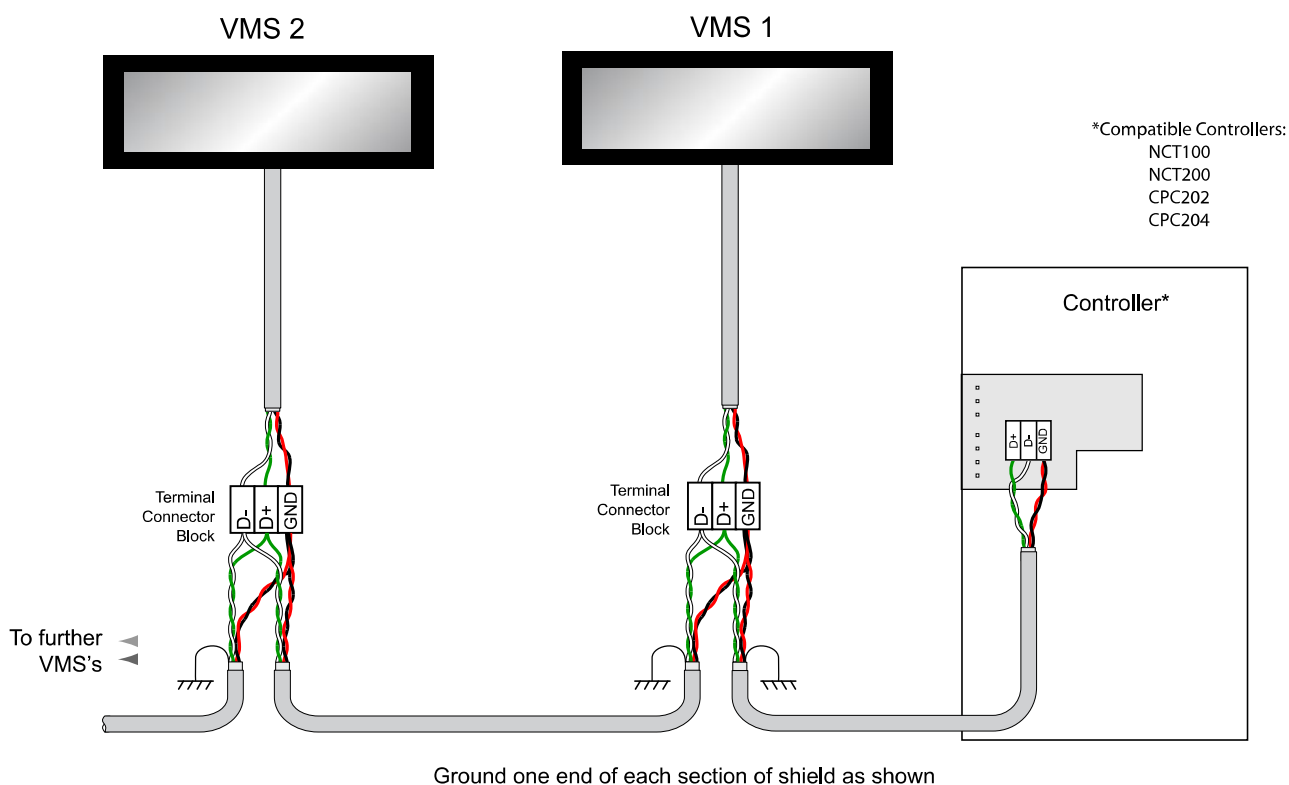
Inputs
Count Bus: RS485 bus from a counter module or shared occupancy controller. Delivering up to 4 count values (NCT100, CPC202 or CPC204) or up to 8 count values (NCT200). The count value that is displayed on each sign is determined by a node value assigned to the sign during installation.

* Subject to confirmation

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Recommended RS485 Wiring

VMS 2

VMS 1

*Compatible Controllers:
NCT100
NCT200
CPC202
CPC204

Controller*

D+ D- GND

Terminal
Connector
Block

D- D+ GND

Terminal
Connector
Block

D- D+ GND

To further
VMS's

Ground one end of each section of shield as shown

Ordering Information

VMS-RGB10   High Intensity RGB LED sign with 10cm high characters, capable of displaying count values and status messages.

VMS-RGB20   High Intensity RGB LED sign with 20cm high characters, capable of displaying count values and status messages.

VMS-RGB10-PKit: Mounting kit for mounting a VMS-RGB10 sign on a 76mm diameter post.

VMS-RGB20-PKit: Mounting kit for mounting a VMS-RGB20 sign on a 76mm diameter post.

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)