**VANDUARD® VS-5220-2-18-W VARIABLE SPEED LIMIT SIGN**

### Display Technology
- High-intensity full color LED

### Cabinet Access
- Front access

### Cabinet Enclosure
- NEMA 3R

### Face Panel
- Aluminum with stainless steel hardware

### Variable Speed Digits
- Black digits on white (full-color) LED background

### Weight
- 100 lbs. (45.4 kg)

### Dimensions
- 5' 0" H x 4' 0" W (1.52 m x 1.22 m)

### Operating Temp. Range
- -34˚ C to +74˚ C

### Humidity Range
- 0 to 99%, non-condensing

### Ventilation
- Pressurized, forced-air ventilation system

### Controller Location
- Sign cabinet

### Display Type
- Full-matrix

### Active Area
- 1' 9" H x 2' 8" W (544 mm x 816 mm)

### Pixel Matrix
- 16 rows x 24 columns

### Pixel Pitch
- 1.33" (34 mm)

### Minimum Character Size
- 18" (473 mm) minimum

### Viewing Distance
- 1,100' (335 m) using 18" characters

### Sign Intensity
- 12,400 candelas/m² minimum (white)

### Power Requirements
- 120 VAC, single-phase power (2-wire plus ground)

### Communications Protocol
- NTCIP 1203

### Communications Options
- Cellular, fiber optic, direct Ethernet, radio Ethernet, RS-232 or RS-422

### Structural Design Standard
- AASHTO

### NEMA Standards
- NEMA TS 4 Section 2 Environmental Requirements

### Welding Standard
- AWS D1.2

### Brightness Control
- Automatic using built-in light sensor or manual control from a remote

### Power Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Viewing Angle (HxV)</th>
<th>Max Power1</th>
<th>Typical Power1</th>
</tr>
</thead>
<tbody>
<tr>
<td>VS-5220-2-18-W</td>
<td>30° x 30°</td>
<td>197 W</td>
<td>145 W</td>
</tr>
</tbody>
</table>

**NOTES**

1. Typical power consumption is calculated as 100% of the environmental control equipment plus 85% of the display’s maximum power requirement.
2. Sign front face is highly reflective white vinyl. Other sides are mill finish aluminum.
3. Maximum power includes a fully illuminated LED sign (100% of the pixels at 100% intensity), the sign controller and ventilation system. Control equipment outlet is provided but not included in max power calculation.
4. Display can also utilize white characters on a black background.
5. Consistent with Daktronics continuous improvement program, all product features are subject to change.