

Features

General

- Supports all Daktronics Vanguard® VF-series VMS
- Controls full, line, and character matrix VMS
- Controls amber and full-color VMS
- Works with Daktronics auxiliary control panel
- Durable, scratch-resistant powder coated finish

Messaging

- Capable of any combination of text and graphics
- Stores up to 500 changeable messages
- Stores up to 20 changeable fonts
- Create, preview, and activate messages from front panel menu
- Supports moving and flashing text
- Supports left, center, and right text justification
- Schedule messages up to one year in advance
- Activate messages by external switch closures and other inputs

Front Control Panel and Indicators

- LCD Panel
 - Full-matrix (64 x 240) with graphic capability
 - High-contrast LCD with backlight
 - Text capacity of 8 lines of 40 characters
- 16 button membrane keypad
- Easy to use interactive menu system on LCD/keypad
- Local/remote control selector switch with LED indicator
- Power and reset switches
- Power, heartbeat, and communication LED indicators

Diagnostics and Maintenance

- Monitor and diagnose all systems from front panel menu
- Real-time diagnostics for pixels, power systems, fans, and other systems
- Monitor temperature, light, door, and other in-sign sensors
- Integrated watch-dog circuit
- Remote controller reset using telephone DTMF codes
- Reserve power allows controller and internal modem to operate during brief power outages
- Real-time message monitor in WYSIWYG format
- Data key allows easy configuration and firmware transfer

Communication Interface

- All ports are fully NTCIP-compliant
- Supports dial-up modem, cellular modem, direct serial, fiberoptic, radio, and other communication networks
- Integrated 10/100Base-T Ethernet port (RJ-45 jack)
- Integrated Hayes-compatible dial-up modem (RJ-11 jack)
- 3 integrated RS232 serial ports (DB-9 jacks)
- Integrated RS422 serial port (RJ-45 jack)
- All ports protected from electromagnetic transients
- Configure multiple communication ports for simultaneous or backup operation

Controller-to-Sign Interface

- Fiber-optic signal cable
 - 62.5/125 μ m fiber with ST connectors
 - 820 nm wavelength
 - Maximum distance: 2,500 ft (762 m)
- Optional copper signal cable
 - CAT - 5 cable with RJ45 connectors
 - Maximum distance: 1,000 ft (305 m)

Physical Characteristics

Dimensions and Weight

- Controller Dimensions:
 - 3.5" H x 14.25" W x 9" D
 - (89 mm x 362 mm x 229 mm)
- Weight: 8.0 lbs (3.6 kg)
- Mounts in standard 19-inch rack (2U)

Environment and Power

- NEMA TS 4 - compliant and tested
- Operating Temperature Range:
 - 34° F to +165° F (-37° C to +74° C)
- Power Source:
 - 120 or 240 VAC at 50 or 60 Hz
 - Uses auto-ranging power supply
- Max. Power Consumption: 20 W
- Power lines protected from electromagnetic transients

NTCIP Standards

- NTCIP 1101: Simple Trans. Mgmt. Framework (STMF)
- NTCIP 1102: Octet Encoding Rules
- NTCIP 1103: Transportation Mgmt. Protocols
- NTCIP 1201: Global Object Definitions
- NTCIP 1203: DMS Object Definitions
- NTCIP 2001: Class B Profile
- NTCIP 2101: PMPP/RS232 Subnetwork Profile
- NTCIP 2103: PPP/RS232 Subnetwork Profile
- NTCIP 2104: Ethernet Subnetwork Profile
- NTCIP 2201: Null Transportation Profile
- NTCIP 2202: TCP/IP & UDP/IP Transport Profile
- NTCIP 2301: Simple Trans. Mgmt. Framework (STMF)
- NTCIP 8004: Structures of Mgmt. Information (SMI)