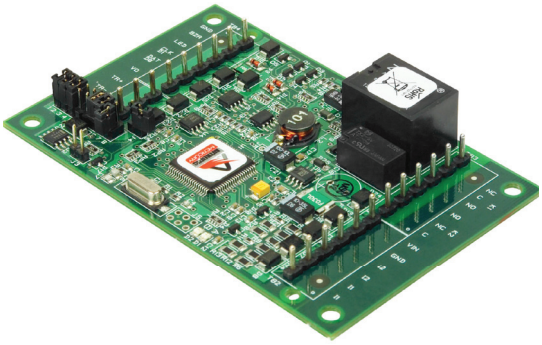
VRI-1
Single Reader Interface



OVERVIEW

The VRI-1 Single Reader Interface offers a cost effective, modular approach to access control system design in all environments. Vanderbilt Industries Reader Interfaces can be used in smaller systems as well as large installations with thousands of readers. The VRI-1 communicates directly with the Vanderbilt VRCNX-M or VSRC-M Reader Controllers. Vanderbilt Reader Interfaces are capable of running in degraded mode, allowing for local decision making, if communication fails between the Reader Interface and the Reader Controller.

Hardware interface and card format settings are loaded through software commands. With its compact footprint and RS-485 connectivity, the VRI-1 can be clustered or distributed to best suit the installation environment.

The Single Reader Interface supports 2 programmable inputs and 2 programmable relay outputs. Inputs and the relays may be assigned to door related functions or to general purpose I/O. The inputs support normally open, normally closed, supervised and non-supervised circuits. End–of–line (EOL) resistance values are configurable. The relays can be configured for fail safe or fail secure operation. Includes enclosure.

FEATURES AND BENEFITS

- VRI-1 connects one read head to a Vanderbilt VRCNX-M or VSRC-M Reader Controller via RS-485 protocol
- Supports proximity, smart card, magnetic stripe, biometrics, bar code and Wiegand technologies
- 2 programmable inputs and 2 programmable relay outputs
- UL294 recognized
- Degraded mode
- Metal enclosure with hinged and dual screw door
- On board connection for tamper switch
- Tamper switch, lock and key option available

SPECIFICATIONS

Dimensions:	2.75″ L x 4.25″ W x 1.0″ H (70mm L x 108mm W x 25.4mm H)
Enclosure:	7-1/2″ H x 8-1/4″ W x 2-3/4″ D
Power requirements:	12-24 Vdc +/- 10% 12Vdc @ 110mA nominal 24Vdc @ 60mA nominal
Power consumption:	150mA maximum (without read heads)
Reader Port	1 Reader Port Power: Input voltage pass-through (IMPORTANT: May require Adjustable DC Output Voltage Module (DCPM-1) to regulate voltage Data Card/Keypad Clock/Data, Data–1/ Data–0, or RS-485
LED:	One-wire, or two-wire bi-color LED support
Buzzer:	Only with 'one-wire' LED
Inputs:	2 General purpose: Programmable circuit type 1 Dedicated: Tamper
Output Relays:	Relay 1: Form–C, 5 Amp 30 Vdc Relay 2: Form–C, 1 Amp 30 Vdc
Ambient temperature:	-40—75 °C operational, -55—85 °C storage
Humidity:	0 to 95% RHNC
Maximum RS485 (data) distance between reader controller to VRI-1 is 4,000 feet with local power	
Recommended cable:	18 AWG/2 COND, Stranded, Shielded,Twisted (RS485data only)
Standards:	UL 294 Recognized, CE compliant, RoHS

ORDERING INFORMATION

VRI-1 Single Reader Interface

Note: Can be ordered without enclosure.
Use (-NB) to specify no box.

OPTIONS

VLOCK Enclosure Lock (comes with (2) keys, tamper switch and cables)

DCPM-1 Adjustable DC Output Voltage Module