VeriSafe™ Network Module

Applications

The VeriSafe Network Module provides a way to leverage data from an Absence of Voltage Tester (AVT) for smarter system monitoring. Take troubleshooting to the next level by automatically measuring voltage and monitoring AVT results, without the need to open equipment doors and covers.

VS2-NET is compatible with VS2-AVT models

Key Features and Benefits

Smart Technology

- Keep doors and covers closed for monitoring and troubleshooting
- View AVT test results and data logs
- Use voltage and test data to trigger alerts in your control system

Flexible Integration

- Ethernet connectivity
- Solid state I/O contacts
- Custom Add on Profile for easy integration in Rockwell Automation Studio 5000, Automatic Diagnostics ready

Onboard Web Application

PANDUIT

VeriSafe™ Network Module

VeriSafe 2.0

- VeriSafe 2.0
- **1** Data Logs
- Settings
- Documentation
- Support
- Logout

2 name
VeriSafe 2.0
Date & Time: 8/31/21, 2:28 PM

3
Updated	8/31/21, 2:25 PM
Battery Voltage	3.2 V
AVT Temperature	20° C (68°F)

4
Updated	8/31/21, 2:26 PM
Connection Status L1	YES
Connection Status L2	YES
Connection Status L3	YES
Connection Status GND	YES

5
Test Result 1	Pass
Test Result 2 Date	8/31/21, 2:28 PM
Test Result 2	Connectivity Not Confirmed
Test Result 2 Date	2/6/00, 10:07 AM

Updated 0 seconds ago

6 Voltage Presence

L1	L2	L3

7 Voltage Measurements

Line To Ground	RMS	Peak
L1	480 Vrms	687 V
L2	479 Vrms	677 V
L3	480 Vrms	679 V

Line To Line	RMS	Peak
L1-L2	277 Vrms	392 V
L1-L2	277 Vrms	392 V
L1-L3	277 Vrms	392 V

1 Access to historical data and test results

2 Customizable name for easy identification and device management

3 Monitor and trend temperature (AVT Isolation Module)

4 Verify AVT sensor lead status

5 AVT test results with diagnostic codes & timestamp

6 Quickly identify voltage loss in any phase

7 Voltage Measurement

  -Troubleshoot remotely

  -Views for three-phase and single-phase (AC or DC)

Technical Specifications

ENVIRONMENT

Operating Temperature	-25°C to 60°C (-13°F to +140°F)
Storage Temperature	-45°C to 85°C (-49°F to +185°F)
Humidity	5 to 90% non-condensing; Rated 80% at 40°C, decreasing linearly to 50% at 60°C
Pollution Degree	3
Degree of Protection	IP20
Altitude	Up to 5,000 meters (3.1 miles)
Dimensions	135 x 112 x 28 mm (5.3 x 4.4 x 1.1 inches)

POWER*

Power over Ethernet	PoE (10/100) IEEE 802.3at (-af) Type 1 Class III PoE topology
DC Input	12-24 VDC 24-14 AWG (0.75 - 2.5 mm²) Solid/Stranded
Current Draw	84mA @ 12 VDC @ 42mA 24 VDC
Power Consumption	1 Watt

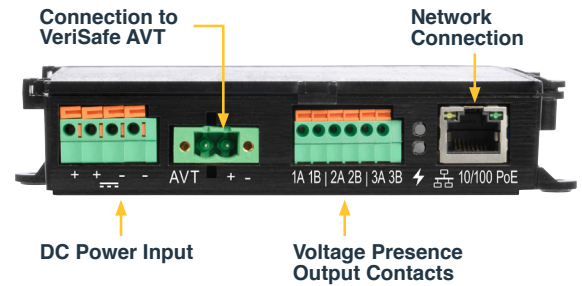***Note:** Network Module supplies power to the AVT. No additional AVT power (battery or DC) required.

NETWORK

Communication Protocols	EtherNet/IP Modbus
Connector	Standard RJ45
Data Refresh Rate	2 seconds; upon test initiation
Onboard Web Application	(Chrome, Edge, Firefox icons)

SECURITY

Features	Secure boot, flash encryption, HTTPS support
Isolation	Network module communication is isolated from the AVT safety function

VOLTAGE PRESENCE CONTACTS

Solid-state Relay	Normally open, relays close when red AVT indicators are illuminated (>47 V)
Wire Size	26-16 AWG (0.13 - 1.3 mm²) Solid/Stranded
Isolation	5000 Vrms Input/Output
Voltage Rating	30 V ac/dc
Current Rating	80 mA (max)
On-resistance	30 Ω

Connection to VeriSafe AVT — Network Connection — DC Power Input — Voltage Presence Output Contacts — AVT — 1A 1B | 2A 2B | 3A 3B — 10/100 PoE

INSTALLATION

Attach to AVT Isolation Module (shown) or mount separately (DIN Rail or surface)

CERTIFICATIONS

UL 508A	Industrial control panel component
UL 1604	ITE equipment for hazardous locations

NOTE: All standards and certifications listed in this document are planned or pending final approval by appropriate listing agencies

Note: Refer to the VS2-NET User Manual for full list of standards and certifications.

VOLTAGE MONITORING RESOLUTION

Range - VAC	Accuracy	Range - VDC	Accuracy
40*-200 VAC	+/- 4 V	40*-300 VDC	+/- 9 V
201-300 VAC	+/- 2%	301-700 VDC	+/- 2%
301-1000 VAC	+/- 1.5%	701-1000 VDC	+/- 1.5%

*The Network module is designed to report measured values between 40-1000 V. The Network module is not optimized to report voltages under 40V. However, the absence of voltage indication from the AVT utilizes a separate circuit that is highly accurate and optimized for the 3V threshold.

Let's connect:
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LITERATURE ## 9/2021

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