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Data Sheet

August 14, 2026

AMETEK / VTI INSTRUMENTS / VXI TECHNOLOGY

Ametek / VTI Instruments / VXI Technology VM2716A 16-Channel Differential 4.5 Digit Scanning Voltmeter

AMETEK VTI VM2716A 16 Channel Differential 4.5 Digit Scanning Voltmeter The VTI VM2716A combines a 4.5 digit DC voltmeter with a 16 channel FET multiplexer. OEM VM2716A datasheet lists plus or minus 0.1/1/10 V ranges, 1000 readings/s at 400 us aperture, 8000 reading memory, plus or minus 0.015 percent of range for 90 days, and overvoltage protection plus or minus 250 V between pairs. High speed multi-point DC voltage scan in VXI ATE without a separate DMM and switch card, up to 48 differential channels per C-size slot. The VTI VM2716A combines a 4.5 digit DC voltmeter with a 16 channel FET multiplexer. OEM VM2716A datasheet lists plus or minus 0.1/1/10 V ranges, 1000 readings/s at 400 us aperture, 8000 reading memory, plus or minus 0.015 percent of range for 90 days, and overvoltage protection plus or minus 250 V between pairs. High speed multi-point DC voltage scan in VXI ATE without a separate DMM and switch card, up to 48 differential channels per C-size slot. Display Digits: 4.5 digit max reading 19.999 Input Ranges: plus or minus 0.1 V plus or minus 1 V plus or minus 10 V



MODEL

**Ametek / VTI
Instruments / VXI
Technology
VM2716A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

VM2716A

LISTING

<https://aumictechlabs.com/products/vm2716a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Ametek / VTI Instruments / VXI Technology VM2716A is a 16-channel differential scanning voltmeter designed for high-precision voltage measurements in automated test equipment systems. Built around 4.5-digit resolution, this instrument delivers the measurement granularity required for detailed voltage analysis across multiple test points. The card-level architecture integrates directly into VXIbus chassis configurations, enabling distributed measurement capability within larger ATE frameworks.

Technical Specifications
Channels: 16 differential
Resolution: 4.5 digits
Measurement Type: Differential voltmeter
Interface: VXIbus

Key Features
The differential input architecture rejects common-mode interference in multi-channel scanning applications. The 4.5-digit resolution balances measurement fidelity with acquisition speed for typical ATE workloads. Channel density - 16 in a single module - reduces the number of cards required for complex test matrices.

Typical Applications
The VM2716A supports production test environments where distributed voltage monitoring across circuit nodes must occur simultaneously. Applications include board-level functional testing, power supply characterization across multiple rails, and sensor array validation. The differential input configuration suits measurements in noisy industrial and manufacturing settings.

Compatibility & Integration
The instrument operates within VXIbus system architecture, supporting modular ATE platform integration. VXIbus connectivity provides both measurement control and data flow within larger test frameworks. Existing VXI chassis installations and measurement systems using compatible bus protocols can incorporate this module directly.

VM2716A Characteristics / Specifications

PARAMETER	VALUE
Model	VM2716A
Channels	16 differential
Display Digits	4.5 digit max reading 19.999
Input Ranges	plus or minus 0.1 V plus or minus 1 V plus or minus 10 V
Resolution 0.1 V Range	10 μ V
Resolution 1 V Range	100 μ V
Resolution 10 V Range	1 mV
Ten Volt Single Ended Limit	15 V when negative input grounded
Accuracy 90 Days Tcal plus or minus 5 C	plus or minus 0.015 percent of range
Accuracy 1 Year	plus or minus 0.03 percent of range
Reading Rate 20 ms Aperture	44 readings per second
Reading Rate 16.66 ms Aperture	52 readings per second
Reading Rate 2.5 ms Aperture	298 readings per second
Reading Rate 400 μ s Aperture	1000 readings per second
Memory	8000 readings
CMRR DC to 60 Hz	greater than 90 dB
CMRR To 400 Hz	greater than 75 dB with up to 100 ohm source unbalance
Input Resistance	10 MOhm from any input pin to ground
Max Normal Plus Common Mode	less than plus or minus 16 Vp
Max Common Mode	plus or minus 16 Vp
Overvoltage Pair	plus or minus 250 V dc or peak ac between differential pairs
Overvoltage To Ground	plus or minus 125 V dc or peak ac
Sample Timer	1 ms to 512 ms
User Connector	44 pin HD D-sub
Host Carrier	VM9000 required

PARAMETER	VALUE
Max Channels PerCSize Slot	48 with three instruments

VM2716A Specifications

PARAMETER	VALUE
Applications	High speed multi-point DC voltage scan in VXI ATE without a separate DMM and switch card, up to 48 differential channels per C-size slot.
Key Features	16 differential FET multiplexed inputs
Technical Specifications	Model: VM2716A
Notes	From VTI Instruments VM2716A datasheet. Must be mounted in a VM9000 carrier. Scanning is DC voltage only.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.