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Data Sheet

August 14, 2026

AMETEK / VTI INSTRUMENTS / VXI TECHNOLOGY

Ametek / VTI Instruments / VXI Technology VM2710A 6.5 Digit Multimeter

AMETEK VTI VM2710A 6.5 Digit VXIbus Multimeter The VTI VM2710A isaVMIP 6.5 digit DMM with two isolated differential inputs and greater than 2000 readings/s over the VXIbus backplane. OEM VM2710A datasheet lists DCV 100 mV to 300 V, 90 day 10 V accuracy 0.005 percent of reading plus 0.003 percent of range, 1 GOhm input to 10 V, and 64k/256k reading memory. ATE and data acquisition voltage, current, and 2/4 wire ohms in a fraction of a C-size VXI slot when mounted on VM9000. Greater than 2000 readings/s across the backplane The VTI VM2710A isaVMIP 6.5 digit DMM with two isolated differential inputs and greater than 2000 readings/s over the VXIbus backplane. OEM VM2710A datasheet lists DCV 100 mV to 300 V, 90 day 10 V accuracy 0.005 percent of reading plus 0.003 percent of range, 1 GOhm input to 10 V, and 64k/256k reading memory. ATE and data acquisition voltage, current, and 2/4 wire ohms in a fraction of a C-size VXI slot when mounted on VM9000. Greater than 2000 readings/s across the backplane Digits: 6.5 to 4.5 selectable by aperture



MODEL

**Ametek / VTI
Instruments / VXI
Technology
VM2710A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

VM2710A

LISTING

<https://aumictechlabs.com/products/vm2710a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ametek VTI Instruments VM2710A is a 6.5-digit multimeter engineered for automated test equipment and data acquisition systems. This VMIP™-family instrument mounts as a C-size VXIbus card, delivering over 2000 readings/second across the backplane - eliminating speed constraints imposed by onboard memory limits. Built-in limit checking and threshold-triggered VXIbus outputs reduce controller overhead.

Technical Specifications

Measurement Functions DC Voltage (V dc) AC Voltage (V ac) DC Current (I dc) AC Current (I ac) 2-Wire Resistance 4-Wire Resistance

Resolution & Speed Selectable resolution: 4.5 to 6.5 digits Reading rate: Greater than 2000 readings/second Programmable aperture times: 100 PLC, 10 PLC, 1 PLC, 0.1 PLC, 0.03 PLC

On-board memory: Up to 256,000 readings with FIFO capability

Measurement Ranges & Over-Range V dc and V ac: 20% over-range (except 300 V range) Current: 18% over-range Resistance: No over-range specified

Accuracy varies by function, range, and aperture time (reference TCAL $\pm 1^\circ\text{C}$ after 1-hour warm-up for sine-wave input $\geq 5\%$ of range with Low-Frequency Filter ON)

Triggering & Control Eight TTL backplane trigger inputs for measurement initiation Programmable trigger delays for external device synchronization Output trigger capability on dedicated backplane line upon measurement completion

Software and hardware control modes

Key Features

Two differential, isolated input channels for direct multiplexer connection or manual probing Programmable aperture times optimize resolution, accuracy, and noise rejection trade-offs On-board limit checking minimizes backplane traffic and controller processing Extensive triggering reduces system latency in synchronized multi-instrument setups

Typical Applications

Production test and characterization of analog circuits Data acquisition requiring high-speed, high-resolution measurements Multi-channel measurement systems via VXI backplane integration Automated precision measurement under software control

Compatibility & Integration The VM2710A integrates into C-size VXI chassis as part of the VMIP™ ecosystem, supporting both software-controlled and hardware-triggered operation across the VXIbus backplane.

VM2710A Characteristics / Specifications

PARAMETER	VALUE
Model	VM2710A
Digits	6.5 to 4.5 selectable by aperture
Host Carrier	VM9000 VMIP required
DC Voltage Ranges	100 mV 1 V 10 V 100 V 300 V
DC Voltage 10 V 24 Hour Accuracy	0.001 percent of reading plus 0.001 percent of range 23 C plus or minus 1 C
DC Voltage 10 V 90 Day Accuracy	0.005 percent of reading plus 0.003 percent of range 23 C plus or minus 5 C
DC Voltage Input Impedance 0.1 V to 10 V	1 GOhm
DC Voltage Input Impedance 100 V and 300 V	10 MOhm
DC CMRR	140 dB at DC
Input Bias Current 25 C	50 pA maximum
Input Protection Voltage	300 V DC or peak AC
Resistance Ranges	20 ohm to 20 MOhm
Ohms Test Current 20 ohm and 200 ohm	1.2 mA
Current DC Ranges	10 mA 100 mA 1 A
Current Shunt 1 A	0.1 ohm
Current Fuse	2 A 250 V external
AC Voltage Bandwidth Class	20 Hz to 300 kHz true RMS
AC Crest Factor	5:1 maximum at full scale
AC CMR	70 dB 100 ohm unbalance in low lead
Aperture 100 PLC 50 Hz	2.0 s at 0.4 rdgs/s 6.5 digits
Aperture 0.03 PLC	50 us at 2000 rdgs/s typical 4.5 digits
Memory Standard	64000 readings
Memory Option	256000 readings
Warm Up	30 minutes

PARAMETER	VALUE
Front Connector	15 pinDtwo input sets plus trigger
Programming	SCPI IEEE 488.2 VXIplug and play
Bandwidth	Class: 20 Hz to 300 kHz true RMS

VM2710A Specifications

PARAMETER	VALUE
AMETEK VTI VM2710A 6.5 Digit VXIbus Multimeter	Overview
Applications	ATE and data acquisition voltage, current, and 2/4 wire ohms in a fraction of a C-size VXI slot when mounted on VM9000.
Key Features	6.5 digit auto ranging DMM
Technical Specifications	Model: VM2710A
Notes	From VTI Instruments VM2710A datasheet accuracy, aperture, and general tables. Must be ordered with a VM9000 host module.

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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DC Voltage Input Impedance 0.1 V to 10 V: 1 GOhm DC Voltage Input Impedance 100 V and 300 V: 10 MOhm	
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PARAMETER	VALUE
Aperture 0.03 PLC	50 us at 2000 rdgs/s typical 4.5 digits
Memory Standard	64000 readings
Memory Option 8	256000 readings
Warm Up	30 minutes
Front Connector	15 pinDtwo input sets plus trigger
Programming	SCPI IEEE 488.2 VXIplug and play

Notes
From VTI Instruments VM2710A datasheet accuracy, aperture, and general tables. Must be ordered with a VM9000 host module.

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.