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Data Sheet

August 15, 2026

AMETEK / VTI INSTRUMENTS / VXI TECHNOLOGY

Ametek / VTI Instruments / VXI Technology SM2002 12-Channel, 10A SPST Power Switch SMIP Module

Ametek VTI SM2002 12-Channel 10 A SPST Power Switch SMIP Module The Ametek SM2002 is a 12-channel 10 A SPST power switch SMIP module for VXI switching base units, with fail-safe interrupt to open all relays, per VXI Technology SMIP power-switch family descriptions. UUT power switching, high-current SPST paths in VXI ATE, and mixed SMIP switch configurations with SM1000A/B carriers. Instrument Type: Power switch SMIP module The Ametek SM2002 is a 12-channel 10 A SPST power switch SMIP module for VXI switching base units, with fail-safe interrupt to open all relays, per VXI Technology SMIP power-switch family descriptions. UUT power switching, high-current SPST paths in VXI ATE, and mixed SMIP switch configurations with SM1000A/B carriers. Instrument Type: Power switch SMIP module Carrier Single Slot Family: SM1000A holds 2 modules



MODEL

**Ametek / VTI
Instruments / VXI
Technology
SM2002**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SM2002

LISTING

<https://aumictechlabs.com/products/sm2002-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ametek VTI Instruments SM2002 is a 12-channel SPST power switch module built on the SMIP interface for VXI-based test systems. Each channel handles up to 10A, making it ideal for power sequencing, multi-subsystem distribution, and high-current switching in automated test equipment. The module integrates directly into VXI chassis for straightforward system integration.

Technical Specifications
Channels: 12
Switch Configuration: Single-Pole Single-Throw (SPST)
Current Rating per Channel: 10A
Module Interface: SMIP (Switch Module Interface Protocol)
System Architecture: VXI (VMEbus eXtensions for Instrumentation)

Key Features
12 independent SPST switching channels
10A per-channel current capacity
SMIP interface for direct VXI integration
Designed for high-density power control in ATE systems

Typical Applications
Power sequencing and control of devices under test (DUTs)
Multi-subsystem power distribution
Selective enable/disable of power to test points
High-current switching in power supply test scenarios

Compatibility & Integration
The SM2002 operates within VXI-compliant test systems and works with standard VXI controllers and test executive software. Its SMIP interface enables direct integration into existing VXI chassis without adapter complexity.

SM2002 Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Power switch SMIP module
Channels	12
Relay Type	SPST
Current Rating	10 A
Carrier Single Slot Family	SM1000A holds 2 modules
Carrier Double Slot Family	SM1000B holds up to 6 modules
Maximum Spst Relays In Double Slot Example	up to 72 when populated with power switch cards
Fail Safe Interrupt	front panel input opens all relays
Platform	SMIP Switch Modularity Interface Platform
Frequency Class	DC power switching
Base Units Compatible	SM1000A SM1000B and later SMP1100 SMP1200 family
Successor Style Module	SMP2002A 12 SPDT 16 A class
Scan Lists Family Feature	built-in scan lists with deep pattern memory
Control Class	register message hybrid SMIP
Module Form	SMIP mezzanine in VXI base unit
Part Number Example Artisan	52-0115-000
Safety Function	removes UUT power on interrupt
Mixing	can mix with multiplexer matrix RF SMIP cards
Maintainability	modules removable from front
Vxi Slots For Double Base	2
Vxi Slots For Single Base	1
Power Switching Threshold Family	greater than 2 A

SM2002 Specifications

PARAMETER	VALUE
Applications	UUT power switching, high-current SPST paths in VXI ATE, and mixed SMIP switch configurations with SM1000A/B carriers.
Key Features	12 channel 10 A SPST
Technical Specifications	Instrument Type: Power switch SMIP 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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Notes	
Channel, current, and carrier density rows from VXI Technology/Ametek VTI SM2002 and SMIP family literature. Successor SMP2002A ratings noted only as family context.	

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.