Product dashboard

Allen-Bradley 1440-VAD02-01RA is an XM-123 aeroderivative dynamic-measurement module with two vibration channels, one tachometer input and two isolated 4-20 mA outputs. It supports standalone operation or DeviceNet integration for turbine condition monitoring.

Exact model	Product type	System family	Functional role
1440-VAD02-01RA	XM-123 Aeroderivative Module	XM Dynamic Measurement Modules	Aeroderivative Monitor

PARAMETER	DOCUMENTED VALUE
Model	1440-VAD02-01RA
Module	XM-123 Aeroderivative
Vibration channels	2
Tachometer inputs	1
Tach range	1-50,000 events/rev; 0.0167-20,000 Hz
Analog outputs	2 isolated 4-20 mA
Maximum analog load	300 ohms
Network	DeviceNet 125/250/500 kbit/s

Release basis: verify the exact identity, retained host relationship, connected interfaces and controlled functional result.

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1440-VAD02-01RA

System overview

Built for aeroderivative gas-turbine monitoring, the 1440-VAD02-01RA combines configurable vibration acquisition, speed reference and local analog retransmission in one XM module.

Aeroderivative vibration monitoring

Conditions two configured vibration channels from the documented sensor families.

Speed-reference capture

Uses the tachometer input for speed-related monitoring and analysis functions.

Analog retransmission

Provides two isolated 4-20 mA outputs for selected measured values.

DeviceNet integration

Exchanges module data and status with a compatible DeviceNet control architecture.

SYSTEM POSITION	RECORD
Installed identity	1440-VAD02-01RA
Host relationship	XM Dynamic Measurement Modules
Controlled function	two-channel aeroderivative vibration measurement with speed reference and analog retransmission

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1440-VAD02-01RA

Technical data map

PARAMETER	VERIFIED VALUE
Model	1440-VAD02-01RA
Module	XM-123 Aeroderivative
Vibration channels	2
Tachometer inputs	1
Tach range	1-50,000 events/rev; 0.0167-20,000 Hz
Analog outputs	2 isolated 4-20 mA
Maximum analog load	300 ohms
Network	DeviceNet 125/250/500 kbit/s
Configuration port	RS-232

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Interfaces	Power, wiring, communication and protection
Configuration	Settings, project and revision
Release	two-channel aeroderivative vibration measurement with speed reference and analog retransmission

Technical evidence record: XM-123 Aeroderivative Module User Guide and Installation Instructions

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1440-VAD02-01RA

Applications and precautions

1. Match the complete 1440-VAD02-01RA catalog number and recorded firmware before work.
2. Record both transducer types, sensitivities, channel ranges and installed terminal-base wiring.
3. Capture the tachometer events-per-revolution value and observed speed before isolation.
4. Back up DeviceNet address, data rate, produced data and alarm or relay configuration.
5. Isolate sensor, tachometer, output-loop and network conductors using the approved procedure.
6. Restore shielding, grounding, polarity and 4-20 mA scaling exactly as documented.
7. Review module, channel, tachometer and network status indicators after energization.
8. Function-test vibration response, speed tracking and both analog outputs before release.

Complete each check against the installed record; hold release when any identity, connection, configuration or diagnostic result differs.

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1440-VAD02-01RA

Buyer and engineering FAQ

What is the purpose of Allen-Bradley 1440-VAD02-01RA?

It is an XM-123 aeroderivative dynamic-measurement module for monitoring vibration and speed-related conditions on aeroderivative gas-turbine applications.

How many vibration channels does Allen-Bradley 1440-VAD02-01RA provide?

It provides two configurable dynamic-measurement channels.

Which sensor inputs can Allen-Bradley 1440-VAD02-01RA accept?

The two channels can be configured for eddy-current transducers, accelerometers or compatible voltage signals from velocity, pressure or other dynamic-measurement devices.

What tachometer capability is available on Allen-Bradley 1440-VAD02-01RA?

It provides one tachometer input covering 1 to 50,000 events per revolution and 0.0167 to 20,000 Hz.

Related Apter Power pages

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