Allen-Bradley

1440-VAD02-01RA

XM-123 Aeroderivative Module

This reference defines the verified engineering boundary of 1440-VAD02-01RA and separates product capability from site-specific configuration.

System position

Exact identity	System family	Functional role	Release basis
1440-VAD02-01RA	XM Dynamic Measurement Modules	Aeroderivative Monitor	Recorded test and diagnostics

Control the identity boundary

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

IDENTITY / RESOURCE	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

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

CONTACT APTER POWER

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

1440-VAD02-01RA

Interfaces and integration

Trace the installed signal path

Integration review for 1440-VAD02-01RA proceeds through identity, interfaces, configuration, diagnostics and functional acceptance.

Model	1440-VAD02-01RA
Module	XM-123 Aeroderivative
Vibration channels	2

Define the receiving position

The host review links the physical slot, companion hardware and retained engineering revision to the offered item.

Host	XM Dynamic Measurement Modules
Primary role	two-channel aeroderivative vibration measurement with
Acceptance	Recorded diagnostic response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Model, designation and complete label
Mechanical	Position, seating and retention
Electrical	Loop supply and field conductors
Processing	Range, limits and correction
Supervision	Supply, range and wire-break states
Release	Controlled test with retained result

Configuration ownership

Keep assigned channel values under the approved project record.

Acceptance ownership

Name the retained result that authorizes handover of the measurement path.

CONTACT APTER POWER

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

1440-VAD02-01RA

Technical resource bands

Only capabilities tied to the exact execution appear here; operating assignments remain configuration-controlled.

PARAMETER	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

PARAMETER	VALUE
Analog outputs	2 isolated 4-20 mA
Maximum analog load	300 ohms
Network	DeviceNet 125/250/500 kbit/s
Configuration port	RS-232

Label decision

Accept the stated part number only when the complete installed identity agrees.

Circuit decision

Confirm the recorded field-circuit arrangement before reconnecting any loop.

Processing decision

Restore channel processing from the approved project rather than a neighboring position.

Evidence decision

Use diagnostic observations and a controlled response to support final handover.

Engineering boundary

A similar faceplate or matching channel total does not prove interchangeability. Resolve the host position, connection scheme and controlled revision before use.

CONTACT APTER POWER

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

1440-VAD02-01RA

Controls and service logic

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.

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Resolve label, designation and receiving position
2. Compare	Review circuit type, processing and supervision
3. Restore	Rebuild the recorded connection and configuration state
4. Demonstrate	Retain diagnostic and functional acceptance evidence

CONTACT APTER POWER

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

1440-VAD02-01RA

Engineering decisions

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

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.

Which analog outputs are provided by Allen-Bradley 1440-VAD02-01RA?

It provides two individually programmable isolated 4-20 mA outputs, each supporting a documented load up to 300 ohms.

How does Allen-Bradley 1440-VAD02-01RA communicate with a control system?

It supports DeviceNet communication at 125, 250 or 500 kbit/s and also includes an RS-232 configuration interface.

Related Apter Power pages

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

CONTACT APTER POWER

WHATSAPP / PHONE	+86 180 3023 5313
EMAIL	sales13@apterpower.com
WEBSITE	www.apterpower.com

1440-VAD02-01RA