WESTINGHOUSE 7379A21G02

QAV Analog Input Card

WESTINGHOUSE 7379A21G02 is a six-channel Q-Line QAV analog input card for isolated low-level millivolt signals.

01	02	03	04
Six isolated analog channels	-12.5 to +50 mV normal range	13-bit digital output	Auto-zero and gain correction

System position

Millivolt field source	QAV isolation and conversion	On-card calibration and buffer	DIOB controller

Product and release scope

Exact identity	Engineering use	Verification boundary	Acceptance
WESTINGHOUSE 7379A21G02 is retained without shortening its suffix.	In the WDPF Q-Line signal path, WESTINGHOUSE 7379A21G02 conditions, calibrates and multiplexes six low-level inputs onto the DIOB. Channel polarity, shield routing, source impedance and line-frequency selection are commissioning-critical.	Only exact-model or explicitly applicable family facts are populated.	Connections, configuration, function and safe response require recorded proof.

Verified technical matrix

Product type	QAV analog input point card
Group	G02
Channel count	6
Normal input range	-12.5 to +50 mVDC

Reduced-accuracy range	-50 to +50 mVDC
Maximum source impedance	500 ohms
Resolution	13 bits including polarity
Line-frequency selection	50 or 60 Hz by jumper on applicable revisions

Interface architecture

Field boundary	Isolation boundary	Conversion boundary	Bus boundary
Six low-level analog inputs with shield terminals	Individual transformer isolation for each channel	Voltage-to-frequency conversion with periodic correction	Multiplexed 13-bit data delivered to the DIOB

Control path

Millivolt field source	QAV isolation and conversion	On-card calibration and buffer	DIOB controller

Technical service focus

H1	H2	H3	H4
Six isolated analog channels	-12.5 to +50 mV normal range	13-bit digital output	Auto-zero and gain correction

Use cases with controlled scope

Low-level process measurement	Thermocouple service	Legacy Q-Line maintenance	Input fault isolation
Acquires six isolated millivolt signals.	Supports configured low-level sensor inputs in the G02 range.	Restores an installed QAV G02 point-card position.	Separates sensor, wiring, conversion and DIOB checks.

INTEGRATION CHECKPOINTS

Identity	Host system	Configuration	Acceptance
WESTINGHOUSE 7379A21G02 remains complete in purchasing, drawings and labels.	Installed position and surrounding hardware are verified before exchange.	Project data, jumpers, wiring and settings are recorded as applicable.	Functional and safe-state evidence is captured before release.

Installation decision points

1	2	3	4
Isolate all six field circuits before handling WESTINGHOUSE 7379A21G02.	Confirm the complete G02 identity and installed QAV card level.	Record channel ranges, polarity, shields and source types before removal.	Keep source impedance at or below the documented 500-ohm limit.

System relationship

Millivolt field source	QAV isolation and conversion	On-card calibration and buffer	DIOB controller

FAQ decision matrix

Engineering decision	Controlled response
How many inputs does WESTINGHOUSE 7379A21G02 provide?	It provides six individually isolated analog input channels.
Which normal range applies to WESTINGHOUSE 7379A21G02?	The G02 normal input range is -12.5 to +50 mVDC.
What reduced-accuracy range is associated with WESTINGHOUSE 7379A21G02?	The extended reduced-accuracy range is -50 to +50 mVDC.
Which source-impedance limit applies to WESTINGHOUSE 7379A21G02?	The maximum source impedance is 500 ohms.

Eight release precautions

1 Isolate all six field circuits before handling WESTINGHOUSE 7379A21G02.	**2** Confirm the complete G02 identity and installed QAV card level.	**3** Record channel ranges, polarity, shields and source types before removal.	**4** Keep source impedance at or below the documented 500-ohm limit.
5 Set the 50/60 Hz jumper to match the site power-line frequency where applicable.	**6** Maintain the front-edge field connector and rear-edge DIOB connector orientation.	**7** Check auto-zero, gain correction and IMOK behavior after startup.	**8** Prove every used channel with a traceable millivolt source before release.

Product verification and contact

Evidence applicability

Evidence record	Applicable scope
Westinghouse Q-Line Installation Manual M0-0053, QAV Style 7379A21G01 through G09	Supports only the exact-model or explicitly applicable family facts used in this document.

Related Apter Power references

Related Apter Power references	Scope note
WESTINGHOUSE 1C31166G02	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 1C31169G02	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 1C31189G01	Portfolio reference only; verify compatibility independently.

	Apter Power technical support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com	Model record WESTINGHOUSE 7379A21G02 QAV Analog Input Card Verify the complete nameplate before installation.