GE IC697ALG440

Complete Product Information

IC697ALG440 extends the matched converter assembly with sixteen current-input channels while the base module performs A/D conversion and PLC data transfer.

WHAT THIS PRODUCT DOES

GE IC697ALG440 is the current-input expander used with an IC697ALG230 base converter in a Series 90-70 high-level analog input subsystem.

Product characteristic 1

Adds sixteen current-input points to the high-level analog subsystem.

Product characteristic 2

Shares conversion and data handling with the IC697ALG230 base module.

Product characteristic 3

Supports three current ranges selected through software configuration.

Product characteristic 4

Provides open-wire fault behavior for 4 to 20 mA operation.

PRODUCT-PAGE TECHNICAL SNAPSHOT

System family	Series 90-70
Module role	Current expander
Input channels	16
Supported input ranges	4 to 20 mA; 0 to 20 mA; -4 to +20 mA

IMPORTANT NOTICE Record the complete IC697ALG440 identity, terminal assignments and channel response before removal, then prove the restored function before release.

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Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

System family	Series 90-70
Module role	Current expander
Input channels	16
Supported input ranges	4 to 20 mA; 0 to 20 mA; -4 to +20 mA
Companion base converter	IC697ALG230
Isolation	1500 V between field and logic
Common-mode voltage	200 V between any two inputs
Configuration	Windows programming software or handheld programmer

FEATURE INTERPRETATION

Product identity

Adds sixteen current-input points to the high-level analog subsystem.

System role

Shares conversion and data handling with the IC697ALG230 base module.

Service context

Supports three current ranges selected through software configuration.

Return-to-service focus

Provides open-wire fault behavior for 4 to 20 mA operation.

SIGNAL OR CONTROL PATH

Current loops → **IC697ALG440** → **IC697ALG230** → **Series 90-70 CPU**

IC697ALG440 should remain matched to its documented rack position, field interface and controller configuration through replacement and commissioning.

PRODUCT-PAGE TECHNICAL QUESTIONS

Which base converter must be paired with GE IC697ALG440?	IC697ALG440 operates with the IC697ALG230 high-level analog input base converter.
How many current inputs does GE IC697ALG440 add?	It adds sixteen current-input channels to the matched analog subsystem.
Which current ranges can GE IC697ALG440 accept?	The documented ranges are 4 to 20 mA, 0 to 20 mA and -4 to +20 mA.

Common applications

The application groups below reproduce the model-specific uses presented on the product page and connect each use to a practical verification point.

Process current acquisition

Brings transmitter loops into a Series 90-70 rack.

Multi-channel monitoring

Expands a base converter for dense analog measurement.

Loop maintenance

Supports channel-level diagnosis and controlled calibration checks.

Legacy PLC renewal

Restores the documented current-input expansion position.

APPLICATION VERIFICATION MAP

Process current acquisition	Confirm the documented system position and the required operating function.
Multi-channel monitoring	Compare the restored connection or control path with the approved record.
Loop maintenance	Check the physical interface and the retained configuration before startup.
Legacy PLC renewal	Record diagnostics and the final controlled response before release.

INFORMATION CARRIED INTO THE WORK RECORD

Identity record

Complete marking and assigned system position.

Connection record

Connector, conductor and interface arrangement as found.

Configuration record

Controlled settings, application data and option state.

Acceptance record

Observed status, response and release decision.

IMPORTANT NOTICE

Use the complete product identifier for every application review; a related product link does not establish interchangeability.

APPLICATION QUESTIONS

Which current ranges can GE IC697ALG440 accept?	The documented ranges are 4 to 20 mA, 0 to 20 mA and -4 to +20 mA.
Where is A/D conversion performed for GE IC697ALG440?	Conversion and PLC data transfer are handled by the companion IC697ALG230 base module.
What isolation boundary applies to GE IC697ALG440?	The subsystem provides 1500 V isolation between field inputs and logic.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

01	Confirm IC697ALG440 and its assigned IC697ALG230 base module.
02	Place every affected current loop in the approved maintenance state.
03	Record range selection and scaling for all used channels.
04	Isolate field sources before removing terminal wiring.
05	Preserve shield, common and channel assignments exactly.
06	Check the expander cable and base-module connection for damage.
07	Inject controlled current points across each configured range.
08	Review PLC values and open-wire diagnostics before release.

FREQUENTLY ASKED TECHNICAL QUESTIONS

Which base converter must be paired with GE IC697ALG440?	IC697ALG440 operates with the IC697ALG230 high-level analog input base converter.
How many current inputs does GE IC697ALG440 add?	It adds sixteen current-input channels to the matched analog subsystem.
Which current ranges can GE IC697ALG440 accept?	The documented ranges are 4 to 20 mA, 0 to 20 mA and -4 to +20 mA.
Where is A/D conversion performed for GE IC697ALG440?	Conversion and PLC data transfer are handled by the companion IC697ALG230 base module.

IMPORTANT NOTICE	Confirm the complete IC697ALG440 marking and every mating interface before installation.

RELEASE CHECKLIST

Identity accepted	The complete product marking and assigned system position agree.
Interfaces accepted	Connections, retention and controlled configuration match the recorded condition.
Response accepted	Diagnostics and the intended technical response have been documented.

FAQ, document reference and related models

ADDITIONAL TECHNICAL QUESTIONS

What isolation boundary applies to GE IC697ALG440?	The subsystem provides 1500 V isolation between field inputs and logic.
How is GE IC697ALG440 configured?	Channel range and operation are set through the Series 90-70 programming software or handheld programmer.
What indicates an open loop on GE IC697ALG440 in 4 to 20 mA mode?	The subsystem reports an underrange condition for a current below the documented open-wire threshold.
Which commissioning test is appropriate for GE IC697ALG440?	Inject traceable current values at representative points and compare all configured PLC readings and diagnostics.

MANUFACTURER DOCUMENT REFERENCE

Manufacturer document	GE Fanuc Series 90-70 Data Sheet Manual GFK-0600F
Application scope	The values below apply to the identified product and its documented system relationship.
Selection rule	Use the complete ordering string and confirm the installed interfaces before selection.

RELATED MODELS ON APTERPOWER

GE IC693MDL753	Related product reference. Review the complete ordering string before selection.
GE IC693CPU372	Related product reference. Compare the required interface and system position.
GE IC693BEM340	Related product reference. Confirm the execution independently for the intended task.

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