GE IC697ALG440

Official Technical Reference Excerpt

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

PRODUCT ROLE

Characteristic 1

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

Characteristic 2

Shares conversion and data handling with the IC697ALG230 base module.

Characteristic 3

Supports three current ranges selected through software configuration.

Characteristic 4

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

MANUFACTURER DOCUMENT

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.

APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.

GFK-0385F
August 1997

Analog Input System, High Level, 16 Channels

Features

- Complete Analog subsystem includes Base Converter and Expander modules
- Base Converter module has eight differential inputs individually configurable for voltage or current
- Accepts unipolar or bipolar Analog Inputs up to " 10 volts full scale
- Accepts 4 to 20 milliamp current loop signals
- Individual user scaling on each input channel on Base Converter module; scaling on a per module basis for Expander modules
- Fast update rate for Base Converter module
- Voltage and current Expander modules, each with 16 inputs, provides for additional inputs at a lower cost per point
- Complete subsystem can accept up to 120 inputs
- No jumpers or DIP switches to configure
- Easy configuration with MS-DOS®or Windows® programming software configuration function.

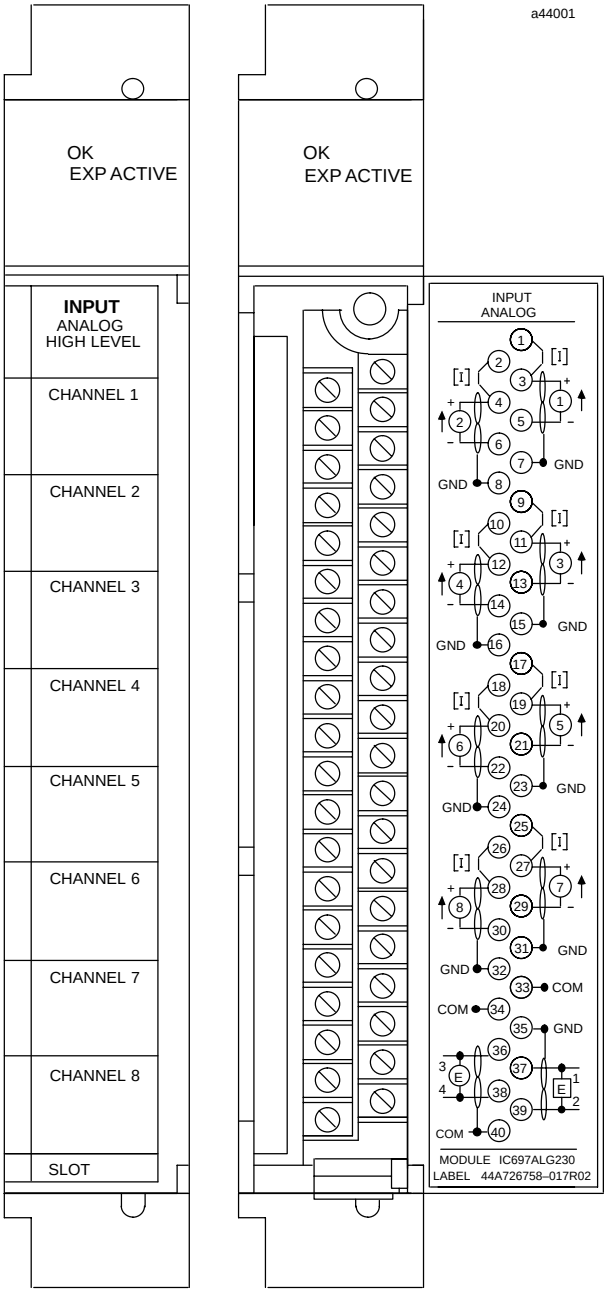


Figure 1. Base Converter Module

® IBM and PS/2 are registered trademarks of International Business Machines Corporation.
® MS-DOS, Windows, Windows 95, and Windows NT are registered trademarks of Microsoft Corporation.

Analog Input System, High Level, 16 Channels

GFK-0385F
August 1997

High Level Analog Input System Modules

Three module types are included in the High Level Analog Input subsystem: a Base Converter module, a Current Expander module, and a Voltage Expander module. A typical subsystem will use a Base Converter module and (if required) one or more expander modules.

- **Base Converter module - catalog number IC697ALG230**

  This module has eight differential inputs and an expansion port. Each input can be individually configured for either voltage or current. Each of the input channels also has individual user scaling.

  On-board load resistors are included for normal input current ranges up to ± 40 mA. If other current ranges or different resolution is required, external resistors may be used.

  Standard system configurations for ± 10 volts and 4 to 20 mA are available. These, and other lower input ranges, can be scaled to engineering units with the user scaling feature.

- **Expander Modules**

  Up to seven Expander modules can be daisy-chained off the Base Converter module to increase the number of inputs of the total subsystem up to a maximum of 120.

  The Base Converter module accepts any mix of the two Expander module types.

  A common user scaling factor applies to all inputs on each Expander module, however each Expander module may be individually scaled as required.

- **Current Input Expander module - catalog number IC697ALG440**

  The Current Expander module has 16 current inputs each accepting up to ± 20 mA.

- **Voltage Input Expander module - catalog number IC697ALG441**

  The Voltage Expander module has 16 differential voltage inputs each accepting up to ± 10V signals.

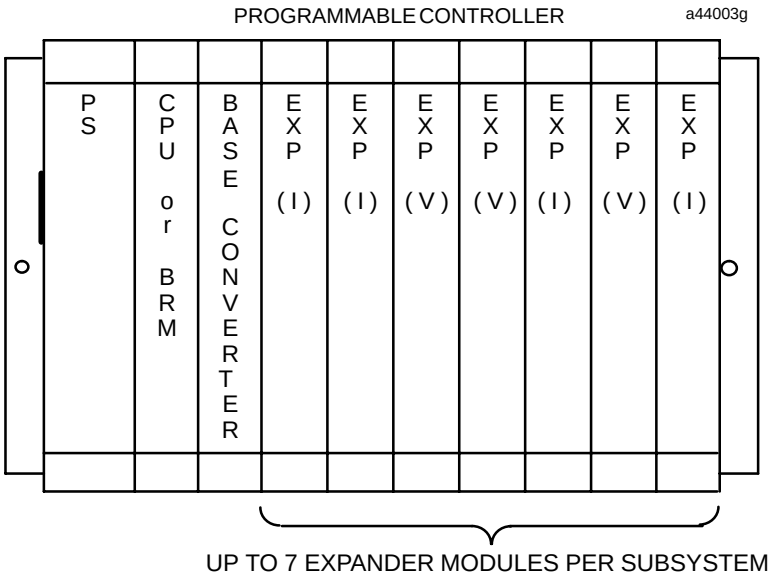


Figure 3. Example of High Level Analog Input System

Analog Input System, High Level, 16 Channels

GFK-0385F
August 1997

User Wiring Connections

The following illustration shows the wiring assignments for the screw terminals on the terminal board of the Base Converter and Expander modules. In addition to the information in this data sheet, circuit wiring diagrams are printed on the inside surface of the label inserted in each module's hinged door.

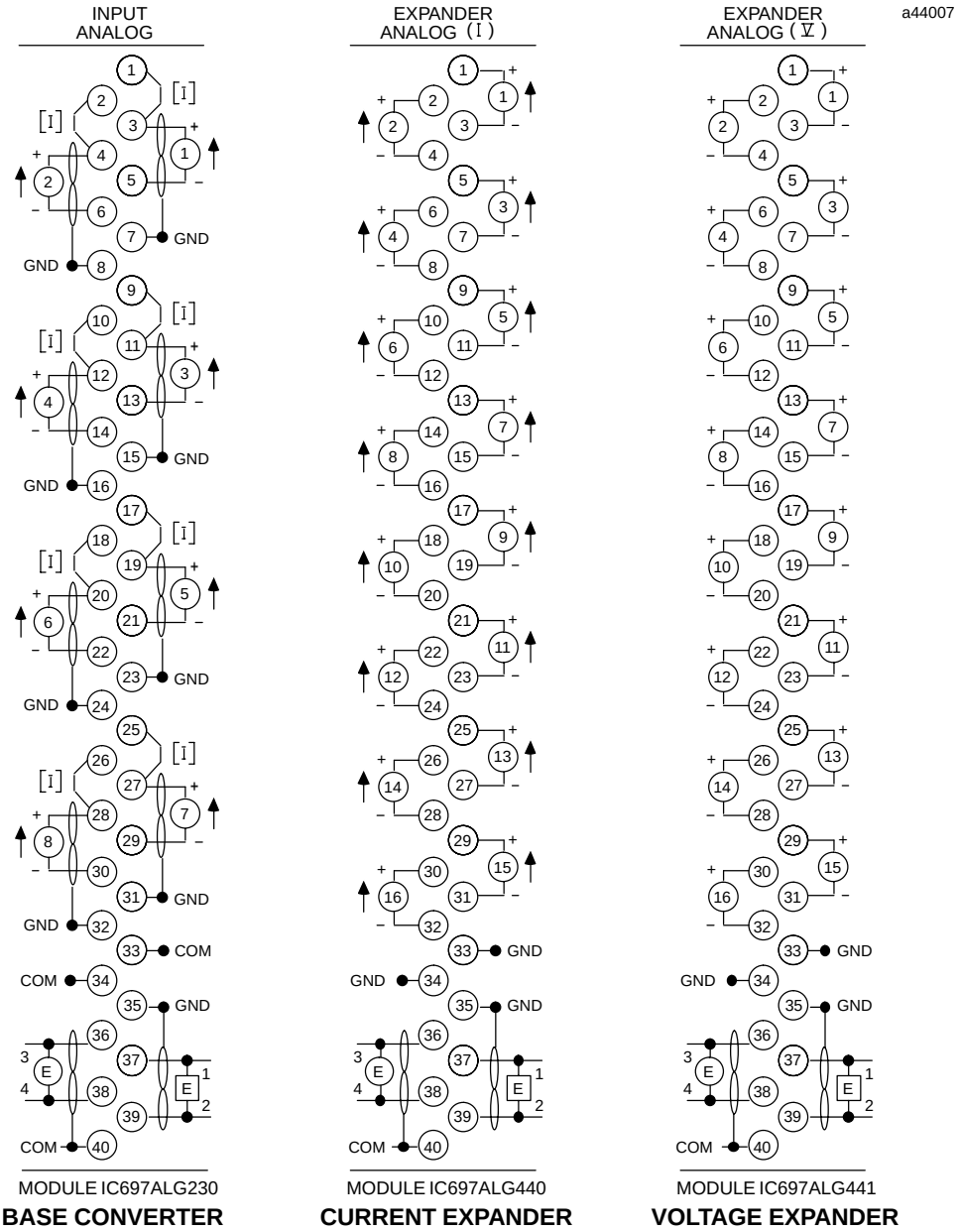


Figure 6. Field Wiring Connections to I/O Terminal Boards (Base Converter and Expander Modules)

Related models and selection control

Use these live ApterPower pages for comparison. Verify each complete ordering string independently.

RELATED PRODUCT REFERENCES

GE IC697ALG230	Technical-reference companion. Review the complete ordering string before selection.
GE IC697ALG321	Technical-reference companion. Compare the required interface and system position.
GE IC697MDL340	Technical-reference companion. Confirm the execution independently for the intended task.

EXACT-SELECTION CONTROLS

Product identity	Confirm the complete IC697ALG440 marking.
System interface	Series 90-70
Technical boundary	Record the complete IC697ALG440 identity, terminal assignments and channel response before removal, then prove the restored function before release.
Source	GE Fanuc Series 90-70 Data Sheet Manual GFK-0600F

APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.