

GE 90-70 SERIES PLC

Product Data Sheet

IC697ALG440

Series 90-70 sixteen-channel current input expander

MODULE ROLE	INPUT CHANNELS	INPUT SIGNAL	REQUIRED BASE CONVERTER
Current-input analog expander	16	4 to 20 mA	IC697ALG230

GE IC697ALG440 is a Series 90-70 sixteen-channel current input expander in the GE 90-70 Series PLC range. Module role: Current-input analog expander. Input channels: 16. Input signal: 4 to 20 mA.

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VERIFIED TECHNICAL DATA

Module role	Current-input analog expander
Input channels	16
Input signal	4 to 20 mA
Required base converter	IC697ALG230
Maximum expanders	Seven per base converter
Complete subsystem capacity	Up to 120 analog inputs
Scaling	Per expander module
Current step	0.5 μ A per LSB with default scaling
Current conversion codes	14-bit, no missing codes
Expander current accuracy	$\pm 0.07\%$ full scale $\pm 0.1\%$ value at 25 °C

ADDITIONAL PRODUCT DATA

Current temperature coefficient	±30 ppm per °C maximum
Current input shunt	250 ohm, 0.1% precision
Channel interaction	No measurable expander-channel crosstalk
Input update interval	44.8 x N ms, N = number of expanders
Backplane draw	5 V at 0.4 A per expander

DOCUMENTED USE SETTINGS

Mineral Separation and Refining: Mineral separation.

Industrial Waste and Resource Recovery: Industrial waste treatment.

Food Ingredient and Beverage Processing: Ingredient processing.

SYSTEM COMPATIBILITY

The manufacturer source documents IC697ALG440 for GE 90-70 Series PLC. It describes module role as Current-input analog expander. Match the controller assembly, slot or network identity and available power before connection.

PRODUCT EVIDENCE

GE Fanuc High-Level Analog Input Subsystem, GFK-0385F