

IC693ALG391

Two-channel Analog Current Output Module

PRODUCT SNAPSHOT

BRAND

General Electric / Emerson

FAMILY

Series 90-30 PLC I/O

MODEL

IC693ALG391

ROLE

Two-channel Analog Current
Output Module

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



IC693ALG391

Use this Apter Power document as a compact reading copy of the product page: overview, specifications, applications, field precautions, FAQ and related-series navigation.

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Technical specifications

MODULE ROLE

Analog current output generation

EXTERNAL SUPPLY

20 to 30 Vdc

OUTPUT CHANNELS

2 analog output channels

COMPLIANCE VOLTAGE

25 V maximum

OUTPUT RANGES

0-20 mA and 4-20 mA

ISOLATION

1500 Vac isolation rating

DIGITAL RESOLUTION

12 bits, typical

BACKPLANE LOAD

+5 Vdc: 30 mA; isolated +24 Vdc: 215 mA

CHANNEL UPDATE

Approximately 5 ms for all channels

HOST PLATFORM

Series 90-30 PLC baseplate

CONFIGURATION BOUNDARY

Before enabling either loop, confirm the external 20 to 30 Vdc supply, polarity, selected range, receiving load and 25 V compliance limit. Restore the documented default or safe-state behavior before production release.

Overview and system role

PLC-TO-LOOP CONVERSION

Converts Series 90-30 output data into two controlled analog current-loop commands.

DUAL-CHANNEL SERVICE

Controls two independent field loops from one baseplate module position.

RANGE SELECTION

Supports the documented 0-20 mA and 4-20 mA current-output ranges.

FIELD ISOLATION

Separates the field-side output circuitry from the controller backplane as documented.

CONTROLLED SIGNAL PATH

PLC OUTPUT DATA

IC693ALG391 D/A

CURRENT DRIVER

FIELD LOAD

MATCHED COMPONENTS

● Series 90-30 PLC CPU and compatible baseplate

● 20 to 30 Vdc external field supply

Applications and field verification

1

Process setpoint output

Supplies controlled current-loop commands from a Series 90-30 control application.

2

Valve and actuator command

Provides an analog reference to compatible positioners or actuators within the loop limit.

3

Drive-reference signaling

Delivers a scaled current command to equipment with an analog current input.

4

Like-for-like maintenance

Supports replacement where slot, supply, range, wiring and safe-state behavior are preserved.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

IDENTITY

Complete IC693ALG391 marking and revision recorded

RACK ASSIGNMENT

Series 90-30 slot and output addresses match the project

LOOP SUPPLY

20 to 30 Vdc source, common and polarity verified

RANGE AND LOAD

Selected range and connected load are within documented limits

FUNCTIONAL PROOF

Each loop verified at low, midpoint and high commands

Precautions, FAQ and related series

ENGINEERING PRECAUTIONS

- 1 Confirm the complete model marking and installed revision before replacement.
- 2 Isolate rack power and the external 20 to 30 Vdc loop supply before disconnecting wiring.
- 3 Record slot assignment, output addresses, scaling and commanded safe-state values.
- 4 Label both channel conductors and preserve polarity, common and shield terminations.
- 5 Confirm the connected load remains within the documented compliance limit.
- 6 Protect backplane and terminal hardware from ESD and mechanical damage.

MODEL-SPECIFIC FAQ

- Q1 What system hosts IC693ALG391?**
A compatible Series 90-30 PLC baseplate and controller configuration.
- Q2 How many outputs are provided?**
Two analog current output channels.
- Q3 Which current ranges are supported?**
The documented ranges are 0-20 mA and 4-20 mA.
- Q4 What external supply is required?**
A 20 to 30 Vdc external field supply within the approved installation.

RELATED SERIES PRODUCTS ON APTER POWER

MODEL	SERIES ROLE	APTER POWER PAGE
IC693ALG392	Series 90-30 eight-channel analog output	Open product page
IC693ALG223	Series 90-30 analog current input	Open product page
IC693ALG442	Series 90-30 analog combination module	Open product page

MANUFACTURER SOURCE RECORD

Series 90-30 PLC I/O Module Specifications - GFK-0898F, July 2000

Series 90-30 PLC Installation and Hardware Manual - GFK-0356

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