

INDUSTRIAL AUTOMATION PRODUCT

549-214

APOGEE analog point expansion module

four configurable analog inputs and four configurable analog outputs

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	Siemens APOGEE Power MEC point-expansion system
Part number	549-214

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Technical Specifications

Technical values below are limited to the named Siemens product record.

PARAMETER	TECHNICAL VALUE
Product number	549-214
Analog inputs	4
Analog outputs	4
Supply	24 V AC, 20 to 30 V AC, 47 to 63 Hz
Power consumption	14 VA at 24 V AC
Input selections	0-10 V, 4-20 mA, 1 kOhm RTD or optional 100 kOhm thermistor
Output selections	0-10 V or 0-20 mA
HOA status	HOA-ready
Connection	MEC expansion bus or APOGEE P1 FLN
Expansion-bus speed	38.4 kbit/s
Maximum MEC modules	Eight in any supported combination
Maximum expansion-bus run	61 m
Operating environment	0 to 49 degC, 93% RH non-condensing
Official document	149-203

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System Role and Architecture

four configurable analog inputs and four configurable analog outputs

FUNCTION 1

Adds four analog inputs

FUNCTION 2

Adds four analog outputs

FUNCTION 3

Supports configurable voltage, current and sensor inputs

FUNCTION 4

Operates on the MEC expansion bus or P1 FLN

Matched system components

- APOGEE Power MEC or P1 FLN controller
- 24 VAC module supply
- documented analog sensors and actuators
- approved point database and expansion-bus wiring

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	APOGEE Power MEC or P1 FLN controller
Companion hardware	24 VAC module supply
Field connection	documented analog sensors and actuators
Primary system function	Adds four analog inputs
Controlled acceptance duty	HVAC analog point expansion

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Applications and Engineering Context

HVAC analog point expansion

Adds four analog inputs

Remote sensor acquisition

Adds four analog outputs

Modulating actuator control

Supports configurable voltage, current and sensor inputs

Power MEC expansion-module replacement

Operates on the MEC expansion bus or P1 FLN

TECHNICAL NOTE

Record all point types, ranges, calibration, expansion-bus or FLN address and HOA preparation; isolate 24 VAC and prove each input and output before releasing control.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	549-214 / 549-214 recorded
Physical interface	APOGEE Power MEC or P1 FLN controller
Companion check	24 VAC module supply
Functional proof	Adds four analog inputs
Application test	HVAC analog point expansion

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Engineering Precautions

- 1 Verify the complete 549-214 marking and its assigned Siemens APOGEE Power MEC point-expansion system position before work.
- 2 Place the connected hvac analog point expansion process in the approved maintenance state.
- 3 Isolate applicable power and four configurable analog inputs and four configurable analog outputs field energy before disconnection.
- 4 Record every connector, conductor, address, firmware and software identity before removal.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Emerson PR6422 013 041	Related industrial automation product	View Emerson PR6422 013 041 page
Emerson PR6423 010 000	Related industrial automation product	View Emerson PR6423 010 000 page
Emerson CON041	Related industrial automation product	View Emerson CON041 page
Emerson PR9268 202 100	Related industrial automation product	View Emerson PR9268 202 100 page
Emerson PR6424 003 030	Related industrial automation product	View Emerson PR6424 003 030 page
Emerson PR9268 302 100	Related industrial automation product	View Emerson PR9268 302 100 page
Emerson PR9268 301 100	Related industrial automation product	View Emerson PR9268 301 100 page
Emerson PR9268 201 100	Related industrial automation product	View Emerson PR9268 201 100 page

MANUFACTURER SOURCE RECORD

Siemens Power Modular Equipment Controller Technical Specification Sheet

149-203, December 2, 2009

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