

549-214

APOGEE analog point expansion module

four configurable analog inputs and four configurable analog outputs

PRODUCT SNAPSHOT

BRAND

Siemens

FAMILY

Siemens APOGEE Power MEC point-expansion s

PART

549-214

PRODUCT TYPE

APOGEE analog point expansion module

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

four configurable analog inputs and four configurable analog outputs

1

Adds four analog inputs

2

Adds four analog outputs

3

Supports configurable voltage, current and sensor inputs

4

Operates on the MEC expansion bus or P1 FLN

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

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.

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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

ENGINEERING 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 3500 42M SIL2 09 01	Related industrial automation product	View Bently Nevada 3500 42M SIL2 09 01 page
Bently Nevada 330130 070 00 05	Related industrial automation product	View Bently Nevada 330130 070 00 05 page
Bently Nevada 330130 040 03 00	Related industrial automation product	View Bently Nevada 330130 040 03 00 page
Bently Nevada 330130 035 00 05	Related industrial automation product	View Bently Nevada 330130 035 00 05 page
Bently Nevada 330130 080 13 05	Related industrial automation product	View Bently Nevada 330130 080 13 05 page
Bently Nevada 330130 046 00 06	Related industrial automation product	View Bently Nevada 330130 046 00 06 page
Siemens 6SL3985 6TM00 0AA0	Related industrial automation product	View Siemens 6SL3985 6TM00 0AA0 page
Bently Nevada 330525 00	Related industrial automation product	View Bently Nevada 330525 00 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 6 Confirm the installed APOGEE Power MEC or P1 FLN controller and 24 VAC module supply against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended remote sensor acquisition function and retain the final test result.

ENGINEER FAQ

Q1 Which points does the 549-214 add to an APOGEE Power MEC?

It adds four configurable analog inputs and four analog outputs, providing an HOA-ready 4AI/4AO expansion position.

Q2 For 549-214, what supply must be verified before connecting the module?

Use 24 VAC within the documented 20 to 30 VAC, 47 to 63 Hz range and allow for 14 VA consumption at 24 VAC.

Q3 For 549-214, which signal types can be assigned to the four analog inputs?

The documented selections are 0-10 V, 4-20 mA, 1 kOhm RTD or the optional 100 kOhm thermistor; preserve each point's configured type and scaling.

Q4 For 549-214, which output modes are available on the four analog outputs?

Each documented output can be configured for 0-10 V or 0-20 mA; record the selected mode, range and controlled actuator before rewiring.

Q5 For 549-214, how can the expansion module communicate with the controller?

The product data identifies the MEC expansion bus or APOGEE P1 FLN, so the installed connection method and addressing must be preserved.

Q6 For 549-214, which expansion-bus limits affect cable replacement?

The documented expansion-bus speed is 38.4 kbit/s and the maximum run is 61 m; retain the approved topology and cable route.

Q7 For 549-214, how many expansion modules can the Power MEC support?

The specification allows up to eight supported modules in combination. Confirm the complete installed chain rather than commissioning this module in isolation.

Q8 What should be verified after restoring a 549-214?

Check every input type and calibration, command each 0-10 V or 0-20 mA output, verify HOA preparation and confirm the MEC or P1 FLN database reports the correct values.

SOURCE Siemens Power Modular Equipment Controller Technical Specification Sheet | 149-203, December 2, 2009

+86 180 3023 5313 | sales13@apterpower.com | www.apterpower.com