

549-214

APOGEE analog point expansion module

CONTROLLED ENGINEERING COPY

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.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	549-214
Manufacturer part	549-214
Hardware type	549-214
System family	Siemens APOGEE Power MEC point-expansion system



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01 PRE-INSTALLATION PLAN

- 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.

MATCHED HARDWARE

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

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
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

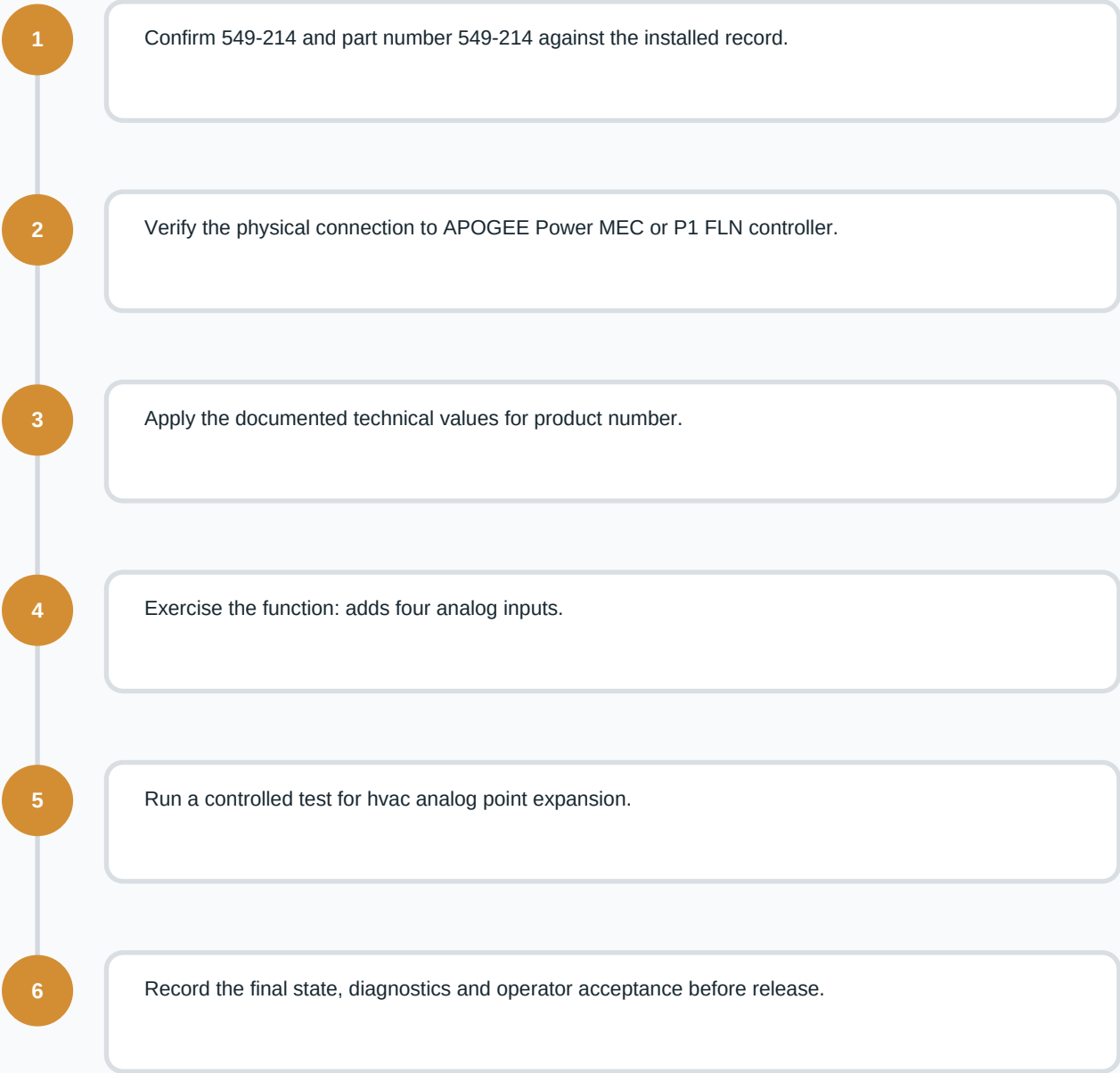
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED 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

FIELD 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.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	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

04 RETURN-TO-SERVICE RECORD

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

VERIFICATION RECORD

PRODUCT IDENTITY	549-214
INSTALLED POSITION	Documented Siemens APOGEE Power MEC point-expansion system position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Emerson PR6423 002 030	Related industrial automation product	View Emerson PR6423 002 030 page
Emerson CON021	Related industrial automation product	View Emerson CON021 page
Allen-Bradley 22B D6P0N104	Related industrial automation product	View Allen-Bradley 22B D6P0N104 page
Bently Nevada 3500 92 04 01 01	Related industrial automation product	View Bently Nevada 3500 92 04 01 01 page
Bently Nevada 3500 33 SIL2 03 01	Related industrial automation product	View Bently Nevada 3500 33 SIL2 03 01 page
Bently Nevada 3500 22M 01 01 01	Related industrial automation product	View Bently Nevada 3500 22M 01 01 01 page
Bently Nevada 3500 15 05 05 01	Related industrial automation product	View Bently Nevada 3500 15 05 05 01 page
Bently Nevada 3500 05 01 02 01 00 01	Related industrial automation product	View Bently Nevada 3500 05 01 02 01 00 01 page

SOURCE IDENTIFIERS

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

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