Siemens 549-214

01 Analog Point Expansion Module / system role

Product function

Siemens 549-214 extends the building-control point database to a separately wired analog field block.

Selected configuration

The module extends a field panel rather than replacing the controller. The selected MEC expansion-bus or P1 FLN connection determines how the point database reaches the physical terminals. Preserve that relationship when restoring a failed point block.

Integration checkpoints

- Building analog acquisition
- Actuator command interface
- MEC point extension
- P1 field-network installations

Control role	Remote analog point expansion
Execution	HOA-ready base module
Installation boundary	Field-panel database and point wiring

This is the HOA-ready execution. It must not be described as having factory-fitted Hand-Off-Auto switches merely because a similar enclosure can accept them. Assess the installed accessories separately from the base module identity.

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02 Technical operating envelope

Analog input count	4
Analog output count	4
Nominal supply	24 V

Network interfaces	MEC expansion bus or P1 FLN
Manual override execution	HOA-ready
CE enclosure requirement	Metal enclosure, IP20 minimum

Use the exact hardware execution with the supported system configuration and installation conditions.

Why should input and output tests on 549-214 use different acceptance paths?

Inputs must be compared against the field stimulus and controller indication. Outputs require a controlled command and observation of the receiving device. Reversing those test directions can conceal incorrect point assignments or a disconnected actuator.

What should be examined if 549-214 communicates but an actuator does not follow commands?

Check the particular output assignment, signal mode in the commissioned application, field wiring and receiving-device supply. Communication health only proves the network path; it does not validate the analog output loop.

What enclosure check is necessary when using 549-214 for CE-compliant installations?

The module must be inside the specified metal enclosure rated at least IP20. Inspect cable entries and wiring-class separation as part of the assembly. The module designation alone does not establish compliance of the completed cabinet.

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03 System integration and applications

Building analog acquisition

Connect approved analog field signals through the configured input points.

Actuator command interface

Use the four output points within the commissioned controller application.

MEC point extension

Extend a compatible MEC through its expansion connection.

P1 field-network installations

Integrate with an APOGEE or pre-APOGEE field panel equipped with P1 FLN.

System and supply context

549-214 belongs to the APOGEE MEC / P1 FLN installation described by the technical reference. Connected equipment and accessories must be included explicitly in the configured assembly.

Application boundary

The following uses describe supported engineering roles; they do not establish interchangeability with another model or remove application-specific validation.

Does the HOA-ready designation of 549-214 guarantee manual override switches?

No. HOA-ready identifies provision for the appropriate upgrade; it does not establish that the switches are fitted. Check the installed assembly and accessory identity before planning a manual override test.

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04 Engineering selection decisions

Why must 549-214 communication wiring be identified before a replacement?

MEC expansion and P1 FLN are different installation relationships. Record which one actually serves the point block and preserve the controller database mapping. Physical reconnection alone does not prove that the panel is polling the correct points.

Can 549-214 be surface-mounted in a smoke-control installation?

The installation instructions distinguish energy-management surface mounting from smoke-control mounting inside the MEC enclosure. Use the required enclosure and approved smoke-control design; an exposed installation must not inherit the enclosed-system application.

How should a sensor substitution connected to 549-214 be assessed?

Compare the sensor signal type and range with the point configuration and receiving circuit before connection. Restore scaling and engineering units as a coordinated change. A similar cable or connector is not evidence of electrical interchangeability.

Which evidence separates a 549-214 point-map error from a field fault?

Apply a controlled stimulus at one known input and watch the corresponding database point, then test an output independently. Correct electrical behavior at the wrong software point suggests a mapping problem; no terminal response directs attention to the field circuit.

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05 Configuration boundary and references

Lifecycle and support

The current manufacturing and manufacturer-support stage for this exact model is not confirmed.

Replacement assessment

Compare the complete 549-214 identity, installed connections and configuration before selecting a replacement. Mounting requirements depend on the application. Surface mounting is for energy management; smoke-control applications require the specified MEC enclosure arrangement. For CE compliance, use a metal enclosure rated at least IP20 and maintain separation of the applicable wiring classes.

Document roles

Use the original manufacturer excerpt for its preserved technical tables and drawings. This product brief explains selection and system context. The separate installation guide covers preparation, connection, tests and handover; use it together with the applicable manufacturer instructions.

Technical basis

Siemens Point Expansion Modules, 586-148-05; Power MEC for BACnet Networks.

Related product navigation

- Siemens 6ES7153-2BA02-0XB0
- Siemens 6ES7321-1BL00-0AA0
- Siemens 6ES7332-8TF01-0AB0

Related products for separate application assessment; verify the platform and interface. No interchangeability is implied.

Product enquiries