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01 Readiness and operating boundary

Siemens 6DP1531-8AA is the FUM 531 analog signal coupling module with four electrically isolated analog inputs and four analog outputs. Its documented output ranges cover 0–10 V, 2–10 V, 0–20 mA and 4–20 mA for non-safety-related APF functions.

Confirm exact identity

Verify 6DP1531-8AA and FUM 531 on the same module label.

Exact model	6DP1531-8AA
Module designation	FUM 531
Hardware type	Analog signal coupling module

Establish the safe work boundary

Record whether each of the four outputs uses voltage or current signaling.

Identity	6DP1531-8AA
Host	TELEPERM XP APF
Acceptance	Diagnostics and functional response

PAGE TRACE	REQUIRED ENTRY
Inspector	_____
Result	Pass / hold / corrective action
Record	Date, diagnostic state and release reference

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6DP1531-8AA

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02 Configuration and interface setup

FUM 531 couples isolated measurement inputs to configured APF analog outputs, requiring each channel's signal type, scaling and field reference to remain aligned with the plant record.

Record the as-found configuration

Capture channel scaling, live-zero selection and the connected field reference.

Module designation	FUM 531
Hardware type	Analog signal coupling module
System context	APF / TELEPERM XP

Map connections and settings

Place the APF function in its approved non-safety maintenance state.

Identity	6DP1531-8AA
Host	TELEPERM XP APF
Acceptance	Diagnostics and functional response

PAGE TRACE	REQUIRED ENTRY
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3 03 Installation and service sequence

FUM 531 couples isolated measurement inputs to configured APF analog outputs, requiring each channel's signal type, scaling and field reference to remain aligned with the plant record.

Restore the documented assembly

Prove isolation and identify every conductor before moving the terminal assembly.

Hardware type	Analog signal coupling module
System context	APF / TELEPERM XP
Analog inputs	4, electrically isolated

Protect every interface

Restore shields and reference conductors exactly as found.

Identity	6DP1531-8AA
Host	TELEPERM XP APF
Acceptance	Diagnostics and functional response

PAGE TRACE	REQUIRED ENTRY
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04 Verification and fault isolation

FUM 531 couples isolated measurement inputs to configured APF analog outputs, requiring each channel's signal type, scaling and field reference to remain aligned with the plant record.

Verify the installed function

Inject a controlled input and compare the interpreted value channel by channel.

System context	APF / TELEPERM XP
Analog inputs	4, electrically isolated
Analog outputs	4

Isolate unexpected response

Drive each analog output through its acceptance points before process release.

Identity	6DP1531-8AA
Host	TELEPERM XP APF
Acceptance	Diagnostics and functional response

PAGE TRACE	REQUIRED ENTRY
Inspector	_____
Result	Pass / hold / corrective action
Record	Date, diagnostic state and release reference

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6DP1531-8AA

5 05 Acceptance and service handover

FUM 531 couples isolated measurement inputs to configured APF analog outputs, requiring each channel's signal type, scaling and field reference to remain aligned with the plant record.

Complete the release record

Verify 6DP1531-8AA and FUM 531 on the same module label.

Exact model	6DP1531-8AA
Module designation	FUM 531
Hardware type	Analog signal coupling module

Retain acceptance evidence

Record whether each of the four outputs uses voltage or current signaling.

Identity	6DP1531-8AA
Host	TELEPERM XP APF
Acceptance	Diagnostics and functional response

[Siemens 6RY1803 0AA25 0AA1 — View product page](#)

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