

Product dashboard

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.

Exact model

6DP1531-8AA

Product type

TELEPERM XP FUM 531
Analog Signal Coupling

System family

TELEPERM XP APF

Functional role

Analog Signal Coupling
Module

PARAMETER	DOCUMENTED VALUE
Exact model	6DP1531-8AA
Module designation	FUM 531
Hardware type	Analog signal coupling module
System context	APF / TELEPERM XP
Analog inputs	4, electrically isolated
Analog outputs	4
Voltage ranges	0–10 V and 2–10 V
Current ranges	0–20 mA and 4–20 mA

Release basis: verify the exact identity, retained host relationship, connected interfaces and controlled functional result.

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6DP1531-8AA

System overview

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.

- APF analog-loop renewal**

Replaces the FUM 531 position while preserving every input and output range.
- Isolated measurement coupling**

Maintains separation between the four recorded analog input paths.
- Voltage-output service**

Supports channels configured for the documented zero- or live-zero voltage ranges.
- Current-output service**

Restores analog outputs assigned to the retained 0–20 mA or 4–20 mA loops.

SYSTEM POSITION	RECORD
Installed identity	6DP1531-8AA
Host relationship	TELEPERM XP APF
Controlled function	four-channel isolated analog acquisition and four-channel analog output coupling

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Technical data map

PARAMETER	VERIFIED VALUE
Exact model	6DP1531-8AA
Module designation	FUM 531
Hardware type	Analog signal coupling module
System context	APF / TELEPERM XP
Analog inputs	4, electrically isolated
Analog outputs	4
Voltage ranges	0–10 V and 2–10 V
Current ranges	0–20 mA and 4–20 mA
Function boundary	Non-safety-related functions
Acceptance	Channel scaling, isolation and output response

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Interfaces	Power, wiring, communication and protection
Configuration	Settings, project and revision
Release	four-channel isolated analog acquisition and four-channel analog output coupling

Technical evidence record: Official exact-model FUM 531 data sheet

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Applications and precautions

1

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

2

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

3

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

4

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

5

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

6

Restore shields and reference conductors exactly as found.

7

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

8

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

Complete each check against the installed record; hold release when any identity, connection, configuration or diagnostic result differs.

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Buyer and engineering FAQ

What does FUM 531 do?

It couples four electrically isolated analog inputs to four configured analog outputs in the APF system.

How many analog input channels are provided?

The exact-model data sheet specifies four isolated analog inputs.

Which voltage-output ranges are documented?

The module supports 0–10 V and 2–10 V output ranges.

Which current-output ranges are documented?

The available current ranges are 0–20 mA and 4–20 mA.

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