

Siemens

6DP1531-8AA

TELEPERM XP FUM 531 Analog Signal Coupling Module

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.

System position

Exact identity 6DP1531-8AA	System family TELEPERM XP APF	Functional role Analog Signal Coupling Module	Release basis Recorded test and diagnostics
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Keep the hardware and configuration identities together

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.

IDENTITY / RESOURCE	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

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

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Interfaces and integration

Define the installed role

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

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

Map the host relationship

The complete 6DP1531-8AA identity is matched to the host position, companion hardware and retained engineering record before any connection is disturbed.

Host	TELEPERM XP APF
Primary role	four-channel isolated analog acquisition and four-channel
Acceptance	Diagnostics and functional response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Electrical	Power, field wiring and protective earth
Communication	Address, network and companion configuration
Configuration	Switches, parameters, project and revision
Release	Controlled test with retained result

Configuration continuity

Retain the recorded TELEPERM XP APF position, connected interfaces and configuration baseline.

Acceptance evidence

Release 6DP1531-8AA only after diagnostics and a controlled functional result are recorded.

Technical resource bands

Only values tied to the complete product identity are listed. Installation-specific settings remain governed by the controlled site record.

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

Identity decision

Accept only the complete 6DP1531-8AA marking and the recorded hardware execution.

Host decision

Confirm the receiving TELEPERM XP APF position and every companion component.

Interface decision

Compare mechanical fit, power, field wiring, communication and protective earth.

Release decision

Record diagnostics and a controlled test of four-channel isolated analog acquisition and four-channel analog output coupling before handover.

Engineering boundary

Use 6DP1531-8AA only after the exact host, installed position, companion parts, protection measures and commissioning record have been matched. Do not borrow ratings from a similar-looking variant.

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Controls and service logic

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.

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Read 6DP1531-8AA and all companion markings
2. Compare	Host, position, connections, settings and revision
3. Install	Restore wiring, shielding, retention and protection
4. Verify	Review diagnostics and execute controlled function test

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Engineering decisions

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.

Is 6DP1531-8AA assigned to safety functions?

No. The exact-model record limits it to non-safety-related APF functions.

What must be captured before removal?

Record every channel assignment, signal range, scaling value, conductor and screen termination.

Related Apter Power pages

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