

Siemens 6DS1702-8RR

TELEPERM Four-Channel Analog Output Module

Product scope

- Provides four selectable analog process outputs.
- Integrates the documented DC/DC supply in the RR execution.
- Isolates the controller side from the output stages.
- Requires explicit AA-versus-RR supply compatibility checks.

Manufacturer source

Siemens TELEPERM M/ME manufacturer manual for analog output module 6DS1702-8AA/-8RR.

This English product record summarizes manufacturer-verified function, operating principle, application and exact-model matching requirements.

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TELEPERM Four-Channel Analog Output Module

Manufacturer-source product record

This record consolidates exact-model facts from the manufacturer references listed below. It is included to identify the ordering configuration before the retained source pages.

Supply voltage	24 V DC; permissible range 19 to 33 V DC
Backplane supply	5 V DC (4.75 to 5.25 V DC)
Maximum supply interruption	15 ms at 19 V; 1 s recovery time
L+ current consumption	65 mA no-load plus the sum of output currents
PM current consumption	0.03 mA with L+ present; 20 mA if L+ fails
5 V bus current consumption	3 mA with L+ present; 6 mA if L+ fails
No-load power loss	1.8 W plus 0.46 W per fully driven channel
Typical four-current-output consumption	110 mA at 50 ohm load and 50% output
Typical four-current-output power loss	2.7 W at 50 ohm load and 50% output
Analog outputs	4
Current output ranges	0 to 20 mA or 4 to 20 mA
Current-output load	0 to 750 ohm
Voltage output ranges	0 to 10 V or 2 to 10 V
Maximum common-mode voltage	60 V
Accuracy	+/-0.25% of full scale
Output ripple	0.05% of full scale
Temperature coefficient	50 ppm/deg C of full scale
Module fuse	1 A fast acting
MTBF at 40 deg C	54.7 years
MTBF at 55 deg C	33.7 years
Operating temperature	0 to +55 deg C
Storage and transport temperature	-40 to +70 deg C
Operating air pressure	900 to 1140 hPa
Storage air pressure	660 to 1140 hPa
Approximate weight	280 g
Mechanical format	Double-height Eurocard, 233.4 x 160 mm, 2 SEP

Official references

- Siemens TELEPERM M/ME manufacturer manual for analog output module 6DS1702-8AA/-8RR.

Only the exact configuration shown above is represented. Adjacent model variants, optional assemblies and system accessories are not treated as part of this ordering identity.

Function, operating principle and application

The notes below explain how this product is used and how its documented signal, power or control path operates. They remain limited to the manufacturer evidence for this model.

Function

The RR execution produces four analog process commands with its documented converter supply integrated on the assembly.

Operating principle

Controller values pass through D/A conversion and V/I conditioning, while galvanic separation protects the system side from the four output circuits.

Application

It is used for continuous output control where the TELEPERM rack is configured for the integrated-supply RR variant.

Replacement boundary

Do not exchange AA and RR versions without checking supply architecture, range selection, field load, connector wiring and rack documentation.



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