

6DR2803-8C

Serial Interface Module

INSTALLATION AND COMMISSIONING GUIDE

It exchanges SIPART controller process data and settings with a higher-level system through a jumper-selected RS232 or RS485 serial interface.

- Supports RS232 or RS485 signaling
- Operates from 300 to 9600 bit per second
- Transfers process variables and configuration data
- Provides galvanic isolation to the controller

VERIFIED IDENTITY

Article number	6DR2803-8C
Module designation	SES serial interface module
Transmittable signals	RS232 or RS485
Transmittable data	Operating states, process variables, parameters and configuration switches
Transmission procedure	DIN 66258 A or B
Character format	10 bits: start, 7-bit ASCII, parity and stop

Official source: Siemens SIPART DR Signal Converters Catalog MP 31
Publication: MP 31, 2019, SES module 6DR2803-8C

APPLICATION SNAPSHOT

SIPART supervisory communication	Links a SIPART controller to a higher-level station.
Serial process-data exchange	Transfers operating states, variables and setpoints serially.
Controller configuration link	Supports parameter and configuration access under the approved protocol.
SES module replacement	Restores the exact isolated serial-interface position.



01 PRE-INSTALLATION PLAN

Step 1	Verify the complete 6DR2803-8C marking and the assigned Siemens SIPART DR controller system position before work.
Step 2	Place the connected sipart supervisory communication process in the approved maintenance state.
Step 3	Isolate all applicable power and isolated rs232 or rs485 serial controller data field energy before disconnection.
Step 4	Record every connector, conductor, address, jumper and project identity before removal.
Step 5	Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
Step 6	Confirm the installed compatible SIPART DR controller and jumper-selected RS232 or RS485 wiring against the approved system record.
Step 7	Restore power in a controlled sequence and review module, rack and host diagnostics.
Step 8	Prove the intended serial process-data exchange function and retain the final acceptance result.

MATCHED HARDWARE

- compatible SIPART DR controller
- higher-level supervisory or configuration system
- jumper-selected RS232 or RS485 wiring
- approved serial protocol and station parameters

02 WIRING & INTERFACE CHECKS

Exact model	6DR2803-8C
Installed system	Siemens SIPART DR controller system
Controlled signal	isolated RS232 or RS485 serial controller data
Connector record	Capture terminal, plug, jumper and cable identities before removal
Shield and reference	Restore only the documented as-found termination arrangement
Supply isolation	Verify all module, field and stored-energy sources are safe
Configuration record	Save addresses, ranges, parameters, software and project revision
Pre-energization gate	Complete continuity, polarity, supply and protective-device checks



03 COMMISSIONING & RETURN TO SERVICE

1 — Identity	Reconfirm 6DR2803-8C and the assigned system position
2 — Mechanical	Verify seating, retaining hardware, airflow and connector protection
3 — Electrical	Verify supply, polarity, references, shields and field protection
4 — Configuration	Restore only the approved addresses, parameters and project
5 — Controlled power	Energize with the connected process in the maintenance state
6 — Diagnostics	Review module, rack, network and host diagnostic indications
7 — Function	Exercise the documented sipart supervisory communication function
8 — Acceptance	Record the final response and release authorization

APPLICATION-SPECIFIC TESTS

SIPART supervisory communication	Links a SIPART controller to a higher-level station.
Serial process-data exchange	Transfers operating states, variables and setpoints serially.
Controller configuration link	Supports parameter and configuration access under the approved protocol.
SES module replacement	Restores the exact isolated serial-interface position.

RETURN-TO-SERVICE RECORD

Identification accepted	Complete model and installed marking verified
Connections accepted	All conductors, connectors, shields and jumpers reconciled
Configuration accepted	Addressing, parameters and project revision confirmed
Diagnostics accepted	No unexplained module, rack, network or host faults
Function accepted	Documented controlled response proved
Record retained	As-left evidence and approval stored with the maintenance record



MODEL-SPECIFIC FAQ & RELATED PRODUCTS

1	Which serial standards are available on Siemens 6DR2803-8C?	The SES module supports jumper-selected RS232 or RS485 operation in the documented SIPART controller arrangement.
2	What data can 6DR2803-8C transmit?	It exchanges operating states, process variables, parameters and configuration-switch information with a higher-level system.
3	Which frame and character format are documented for 6DR2803-8C?	Siemens specifies DIN 66258 A or B with a 10-bit character containing start, 7-bit ASCII, parity and stop bits.
4	What data-rate range applies to 6DR2803-8C?	The documented transmission speed is 300 to 9600 bit/s using asynchronous half-duplex communication.
5	How many stations can 6DR2803-8C address?	The technical data lists up to 32 addressable stations with traffic monitoring from 1 to 25 seconds or disabled.
6	What isolation boundary is provided by 6DR2803-8C?	The module provides galvanic isolation between serial Rxd/Txd and the controller, rated up to 50 V UC in the catalog data.
7	Which cable limits must be checked for 6DR2803-8C?	Verify the selected RS232 or RS485 cable capacitance and the Siemens guideline length for the actual cable construction.
8	How is 6DR2803-8C accepted after service?	Restore jumpers and serial parameters, confirm stable polling without timeouts, and verify process values and configuration data at both ends.

RELATED PRODUCTS ON APTER POWER

01	ABB DSQC346G	Related industrial automation product
02	Siemens 6ES7317 2EK13 0AB0	Related industrial automation product
03	Siemens 6ES7317 2AJ10 0AB0	Related industrial automation product
04	ABB RRIA 01	Related industrial automation product
05	Epro PR9268 200 000	Related industrial automation product
06	Bently Nevada 330104 01 05 10 02 00	Related industrial automation product
07	Bently Nevada 330101 20 36 10 02 00	Related industrial automation product
08	Bently Nevada 330709 000 130 10 02 00	Related industrial automation product

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