Siemens 6DR2803-8C

01 Record the controller telegram setup

1. Identify the SIPART controller type, module position, selected serial procedure, address and host settings. Save the operating parameters before changing communication hardware.

2. ### Controller telegram setup — acceptance

   The host driver and controller-specific telegram definition are known and recoverable.

Stage record	Record the controller telegram setup observations and acceptance result
Electrical interfaces	RS232 or RS485
Transmission mode	Asynchronous, half-duplex

02 Check the physical serial circuit

1. Inspect the RS232/RS485 jumper selection and match it to the terminal wiring. Review cable capacitance, reference connections and the intended network topology.

2. ### Physical serial circuit — acceptance

   Electrical mode and cable arrangement agree; no RS232 point-to-point assumption is carried into an RS485 bus.

Stage record	Check the physical serial circuit observations and acceptance result
Transmission speed	300–9600 bit/s
Addressable stations	32

03 Install and restore settings

1. Keep local control in the approved maintenance condition, then replace the module according to the controller procedure. Restore jumpers, address and host communication settings.

2. ### Restored interface settings — acceptance

   The installed interface and supervisory configuration correspond to the recorded system without an unintended parameter change.

Stage record	Install and restore settings observations and acceptance result
Character format	10 bits: start, 7-bit ASCII, parity, stop
Data-traffic monitoring	1–25 s or disabled

04 Validate read and write behavior

1. Read known process and status values first. Perform only authorized test writes, confirm readback and observe whether local controller behavior remains as intended.

2. ### Read and write behavior — acceptance

   Transactions affect the correct controller and parameter, with clear completion and error handling.

Stage record	Validate read and write behavior observations and acceptance result
Galvanic isolation	Up to 50 V UC
RS232 cable-capacitance limit	2.5 nF

05 Test communication-loss response

1. Apply the approved timeout or disconnection test and verify local-control continuity and supervisory diagnostics. Record final serial settings and restore normal access permissions.

2. Communication-loss response — acceptance

   Loss and recovery of communication produce the intended response without stale commands or unnoticed parameter changes.

Technical basis: Siemens MP 31, SIPART DR Signal Converters, 2019.

Related product navigation

Siemens 6ES7134-6GF00-0AA1

Siemens 6ES7131-6BH01-0BA0

Siemens 6ES5466-3LA11

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