Siemens 6GT2002-0ED00

01 Capture the identification topology

Record the basic module, connection block, PROFIBUS address, GSD and controller function interface. Associate each reader cable with its reading point and supported reader family.

Identification topology — acceptance

A complete physical-to-logical map exists for both reader ports and the master interface.

Stage record	Capture the identification topology observations and acceptance result
Reader interfaces	2
Reader interface electrical type	RS422

02 Check reader and power selection

Review the total supply load and each reader current. Apply the single-reader restriction for a reader above 400 mA, and verify the selected power and PROFIBUS connection block.

Reader and power selection — acceptance

The powered reader combination stays within the intended module arrangement and all required connection hardware is present.

Stage record	Check reader and power selection observations and acceptance result
Reader connector	M12, 8-pin
PROFIBUS protocol	DP-V1, acyclic

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03 Restore the field connections

Follow the identification-system installation procedure with the process secured. Reconnect the labelled readers, power and bus connections, preserving address and termination.

Field connections — acceptance

No reader is assigned to the wrong port and the bus topology retains its required endpoint termination.

Stage record	Restore the field connections observations and acceptance result
PROFIBUS data rate	9.6 kbit/s–12 Mbit/s
Serial rate	115.2 kbit/s maximum

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04 Validate complete transactions

Use a known target at each reading point and exercise the actual read or write command. Review command completion, returned data and diagnostic response at the controller.

Complete transactions — acceptance

The correct target data reaches the intended application point and failed operations are recognized as invalid.

Stage record	Validate complete transactions observations and acceptance result
Supply range	20–30 V DC
Current without connected devices	80 mA typical at 24 V

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05 Test recovery at the machine

Perform the approved reader or bus interruption test and observe recovery. Record the final GSD, function interface, reader assignments and transaction results before releasing production tracking.

Recovery at the machine — acceptance

The application recovers without accepting stale identification data or confusing the two reading points.

Technical basis: Siemens ID 10, Communication Modules, 2016.

Related product navigation

- Siemens 6ES7153-1AA03-0XB0
- Siemens 6ES7326-2BF01-0AB0
- Siemens 6ES7153-4AA01-0XB0

Related products for separate application assessment; verify the platform and interface. No interchangeability is implied.