

1TGE102009R2300

MLink Gateway

CONTROLLED ENGINEERING COPY

Record every network address, serial setting, Ethernet parameter, MNS iS assignment and host mapping before changing 1TGE102009R2300.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	1TGE102009R2300
Manufacturer part	1TGE102009R2300
Hardware type	1TGE102009R2300
System family	ABB MNS iS MLink communication system



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete 1TGE102009R2300 marking and its assigned ABB MNS iS MLink communication system position before work.
- 2

Place the connected mns is host integration process in the approved maintenance state.
- 3

Isolate every documented power, signal and stored-energy source before disconnecting conductors or cables.
- 4

Record the installed slot, connectors, conductors, addressing, firmware and software configuration before removal.
- 5

Use ESD-safe handling and protect keyed electrical, fiber or sensor interfaces as applicable.

MATCHED HARDWARE

- MNS iS switchgear communication network
- 24 V DC supply
- RS232 Modbus host
- Ethernet Modbus TCP host

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	1TGE102009R2300 / 1TGE102009R2300 recorded
Physical interface	MNS iS switchgear communication network
Companion check	24 V DC supply
Functional proof	Bridges MNS iS data to Modbus networks
Application test	MNS iS host integration

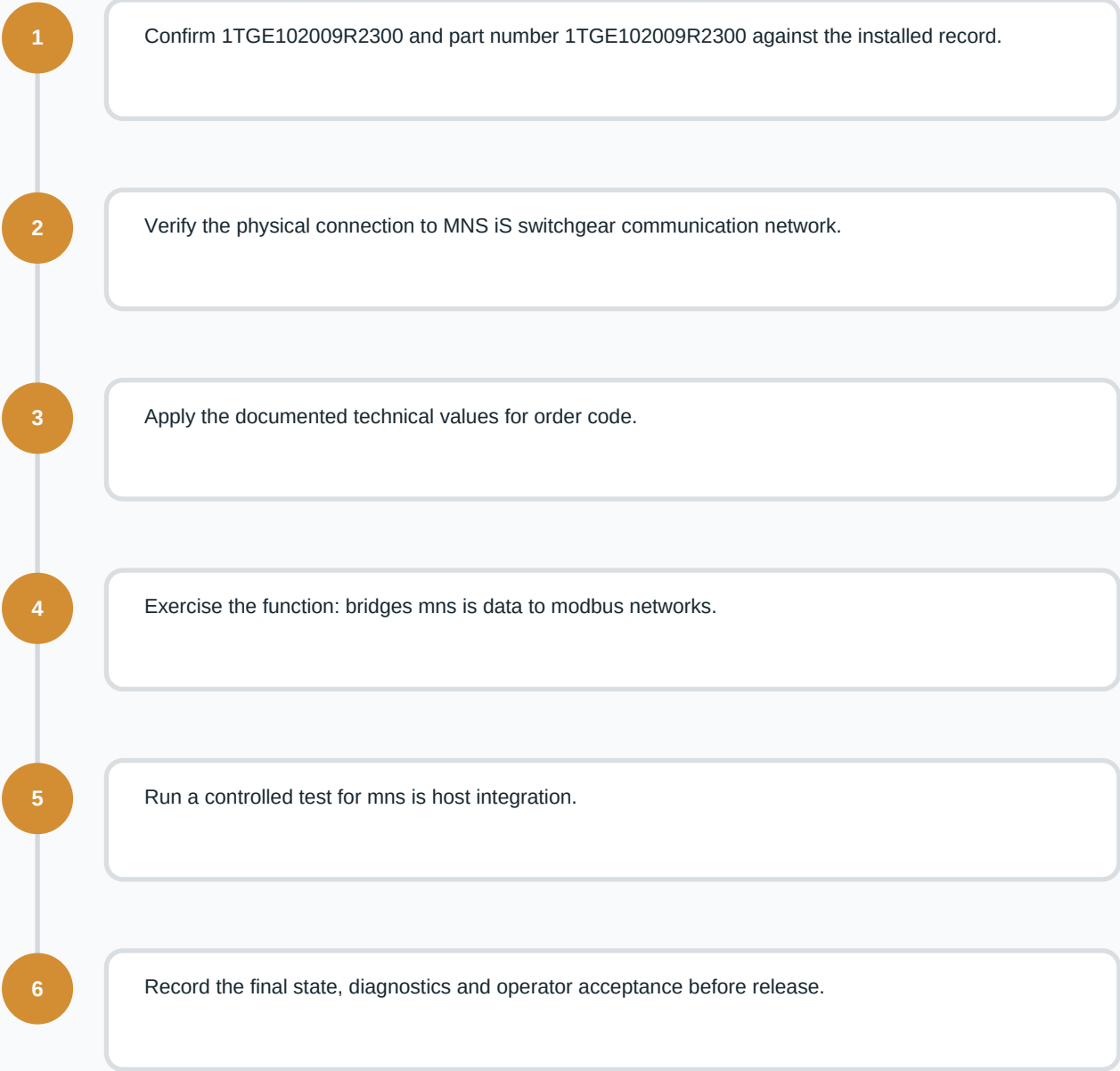
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Order code	1TGE102009R2300
Product	MLink
Variant	Standard
Serial protocol	Modbus RTU over RS232
Ethernet protocol	Modbus TCP
Supply	24 V DC
Permitted supply range	19 to 33 V DC
Typical current	1000 mA
Maximum current	1700 mA
Operator interface	MView web interface
Data interface	OPC
Event function	Time stamping
Operating temperature	0 to 55 degC
Storage temperature	-20 to 70 degC

FIELD NOTE

Record every network address, serial setting, Ethernet parameter, MNS iS assignment and host mapping before changing 1TGE102009R2300.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	1TGE102009R2300 / 1TGE102009R2300 recorded
Physical interface	MNS iS switchgear communication network
Companion check	24 V DC supply
Functional proof	Bridges MNS iS data to Modbus networks
Application test	MNS iS host integration

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed MNS iS switchgear communication network and 24 V DC supply against the approved project.
- ☐
- Restore power in a controlled sequence and review device, network and host diagnostics.
- ☐
- Prove the intended modbus rtu data exchange function and retain the final acceptance result.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	1TGE102009R2300
INSTALLED POSITION	Documented ABB MNS iS MLink communication system position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Siemens 6SE7027 2TD84 6HF3	Related industrial automation product	View Siemens 6SE7027 2TD84 6HF3 page
Siemens 6RY1803 0AA25 0AA1	Related industrial automation product	View Siemens 6RY1803 0AA25 0AA1 page
Siemens 6SE7035 1EJ84 1JC1	Related industrial automation product	View Siemens 6SE7035 1EJ84 1JC1 page
Siemens 6SE7033 7EG84 1JF1	Related industrial automation product	View Siemens 6SE7033 7EG84 1JF1 page
Siemens 6SL3352 6TG38 8AA3	Related industrial automation product	View Siemens 6SL3352 6TG38 8AA3 page
Siemens 6SE7041 2WL84 1JC1	Related industrial automation product	View Siemens 6SE7041 2WL84 1JC1 page
Siemens 6SL3120 2TE21 8AC0	Related industrial automation product	View Siemens 6SL3120 2TE21 8AC0 page
Siemens 6RY1803 1DA04	Related industrial automation product	View Siemens 6RY1803 1DA04 page

SOURCE IDENTIFIERS

ABB MNS iS Interface Manual MLink
1TGC910127M0201 Release 5.4

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