

INDUSTRIAL AUTOMATION PRODUCT

1TGE102009R2300

MLink Gateway

MNS iS system data exchange through Modbus RTU, Modbus TCP, OPC and the MView interface

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
System family	ABB MNS iS MLink communication system
Part number	1TGE102009R2300

APTER POWER SALES TEAM

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Technical Specifications

Technical values below are limited to the named ABB product record.

PARAMETER	TECHNICAL 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
Protection	IP20
Published MTBF	15 years at 40 degC
Reference	1TGC910127M0201 Release 5.4

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System Role and Architecture

MNS iS system data exchange through Modbus RTU, Modbus TCP, OPC and the MView interface

FUNCTION 1

Bridges MNS iS data to Modbus networks

FUNCTION 2

Provides RS232 Modbus RTU communication

FUNCTION 3

Provides Ethernet Modbus TCP communication

FUNCTION 4

Hosts the MView web interface

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	MNS iS switchgear communication network
Companion hardware	24 V DC supply
Field connection	RS232 Modbus host
Primary system function	Bridges MNS iS data to Modbus networks
Controlled acceptance duty	MNS iS host integration

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Applications and Engineering Context

MNS iS host integration

Bridges MNS iS data to Modbus networks

Modbus RTU data exchange

Provides RS232 Modbus RTU communication

Modbus TCP supervision

Provides Ethernet Modbus TCP communication

MLink gateway replacement

Hosts the MView web interface

TECHNICAL NOTE

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

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	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

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Engineering Precautions

- 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.

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Siemens 6RY1243 0EA00	Related industrial automation product	View Siemens 6RY1243 0EA00 page
Honeywell 10024 H I	Related industrial automation product	View Honeywell 10024 H I page

MANUFACTURER SOURCE RECORD

ABB MNS iS Interface Manual MLink

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