

1TGE102009R2300

MLink Gateway

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

PRODUCT SNAPSHOT

BRAND

ABB

FAMILY

ABB MNS iS MLink communication system

PART

1TGE102009R2300

PRODUCT TYPE

MLink Gateway

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PRODUCT OVERVIEW

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

1

Bridges MNS iS data to Modbus networks

2

Provides RS232 Modbus RTU communication

3

Provides Ethernet Modbus TCP communication

4

Hosts the MView web interface

SYSTEM COMPONENTS

MNS iS switchgear communication network

24 V DC supply

RS232 Modbus host

Ethernet Modbus TCP host

TECHNICAL NOTE

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

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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

ENGINEERING NOTE

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

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Siemens 6SL3352 6TE33 8AA3	Related industrial automation product	View Siemens 6SL3352 6TE33 8AA3 page
Siemens 6RY1803 0DA04	Related industrial automation product	View Siemens 6RY1803 0DA04 page
Siemens C98043 A7106 L4	Related industrial automation product	View Siemens C98043 A7106 L4 page
Bently Nevada 330180 90 CN	Related industrial automation product	View Bently Nevada 330180 90 CN page
Bently Nevada 330106 05 30 10 02 00	Related industrial automation product	View Bently Nevada 330106 05 30 10 02 00 page
Siemens 6RY1803 0DA03	Related industrial automation product	View Siemens 6RY1803 0DA03 page
Bently Nevada 330104 01 05 50 02 00	Related industrial automation product	View Bently Nevada 330104 01 05 50 02 00 page
Bently Nevada 330910 00 24 10 01 CN	Related industrial automation product	View Bently Nevada 330910 00 24 10 01 CN page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

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

ENGINEER FAQ

Q1 Which communication option code is ABB 1TGE102009R2300?

ABB lists 1TGE102009R2300 as the standard MLink option combining Modbus RS232 and Modbus TCP.

Q2 Which supply range applies to ABB 1TGE102009R2300?

The gateway uses 24 V DC and permits 19 to 33 V DC at its supply input.

Q3 What current demand must be allowed for ABB 1TGE102009R2300?

ABB publishes 1000 mA typical and 1700 mA maximum current, so the installed 24 V DC source must cover the maximum.

Q4 How does ABB 1TGE102009R2300 exchange serial data?

Its RS232 interface supports Modbus RTU communication using the documented address, baud rate and framing settings.

Q5 How does ABB 1TGE102009R2300 exchange Ethernet data?

Its Ethernet interface supports Modbus TCP and must retain the approved IP addressing and host mapping.

Q6 Which local service interface is available on ABB 1TGE102009R2300?

The MLink platform provides the MView web interface for approved monitoring and service tasks.

Q7 Which environmental limits apply to ABB 1TGE102009R2300?

Operate it from 0 to 55 degC, store it from -20 to 70 degC and maintain the documented IP20 enclosure arrangement.

Q8 What must be commissioned after replacing ABB 1TGE102009R2300?

Verify the MNS iS connection, both Modbus paths, OPC or web access where used, time stamping and all host data mappings.

SOURCE ABB MNS iS Interface Manual MLink | 1TGC910127M0201 Release 5.4

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