Firmware for MGate 4101-MB-PBS Series Release Notes

Version: v2.1	Build: 23101315
Release Date: Dec 12, 2023	

Applicable Products

MGate 4101-MB-PBS Series

Supported Operating Systems

N/A

New Features

• upports Modbus starting address registration in Modbus server (slave) mode.

Enhancements

N/A

Bugs Fixed

• odbus command does not retry even though the Max. Retry count has not been reached.
• ROFIBUS remains in diagnostic mode even though the correct Modbus response has been received.
• odbus keeps polling the same register even though an exception response has been received.
• ROFIBUS page switching time significantly prolonged by failed Modbus requests.

Changes

N/A

Notes

N/A

Version: v2.0	Build: N/A
Release Date: Apr 22, 2020	

Applicable Products

MGate 4101-MB-PBS, MGate 4101-MB-PBS-T, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

• A Modbus data frame error occurred due to the misidentification of a specific Modbus RTU packet.

Changes

N/A

Notes

N/A

Version: v1.6	Build: Build 16030313
Release Date: Apr 21, 2016	

Applicable Products

MGate 4101-MB-PBS, MGate 4101-MB-PBS-T, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T

Supported Operating Systems

N/A

New Features

• Supports Modbus fault protection.
• Supports Modbus and PROFIBUS command tag name.
• Supports I/O data view.

Enhancements

• Enhanced Modbus communication performance.

Bugs Fixed

• Data error would occur with low baudrate and FIFO enabled for Modbus RTU communication.

Changes

N/A

Notes

N/A

Version: v1.5	Build: Build 15082009
Release Date: N/A	

Applicable Products

MGate 4101-MB-PBS-T, MGate 4101-MB-PBS, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

• Modbus RTU communication would stop if MGate continuously operated without power cycling for over 49.7 days.

Changes

N/A

Notes

N/A

Version: v1.4	Build: Build 14080611
Release Date: N/A	

Applicable Products

MGate 4101-MB-PBS-T, MGate 4101-MB-PBS, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

• Modbus slave ID can be set to 248 ~ 255.

Bugs Fixed

• Modbus ASCII communication may stop if an error frame was received.
• Modbus RTU communication would fail if FIFO was disabled.

Changes

N/A

Notes

N/A

Version: v1.3	Build: Build 14031018
Release Date: N/A	

Applicable Products

MGate 4101I-MB-PBS-T, MGate 4101-MB-PBS-T, MGate 4101-MB-PBS, MGate 4101I-MB-PBS

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

• MGate 4101 PROFIBUS port stopped responding to PROFIBUS telegrams after receiving broadcast telegrams with destination SAP 63.

Changes

N/A

Notes

N/A

Version: v1.2	Build: Build 13032915
Release Date: N/A	

Applicable Products

MGate 4101-MB-PBS-T, MGate 4101-MB-PBS, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

• Passed PI certification test.
• Changed the minimum value of the polling interval in Modbus master commands to 10 ms.

Bugs Fixed

• MGate 4101 would return incorrect diagnostic data to the PROFIBUS master after powering on.

Changes

N/A

Notes

N/A

Version: v1.1	Build: Build 13030614
Release Date: N/A	

Applicable Products

MGate 4101I-MB-PBS, MGate 4101-MB-PBS, MGate 4101-MB-PBS-T, MGate 4101I-MB-PBS-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

• Compatibility issues with the HMS PROFIBUS Master simulator.

Changes

N/A

Notes

N/A

Version: v1.1	Build: Build 12122613
Release Date: N/A	

Applicable Products

MGate 4101-MB-PBS, MGate 4101-MB-PBS-T, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

• MGate 4101 would reply with the wrong value when receiving SSA (Set-Slave-Address) commands from the PROFIBUS Master.
• Cleared diag.Ext_diag flag when a PROFIBUS watchdog timeout occurred.

Changes

N/A

Notes

N/A

Version: v1.1	Build: Build 12121114
Release Date: N/A	

Applicable Products

MGate 4101I-MB-PBS, MGate 4101-MB-PBS, MGate 4101-MB-PBS-T, MGate 4101I-MB-PBS-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

• MGate 4101-PBM-MB would return success when the PROFIBUS master sent a chk_cfg telegram and the I/O configuration was inconsistent with the device settings.

Changes

N/A

Notes

N/A

Version: v1.1	Build: Build 12092111
Release Date: N/A	

Applicable Products

MGate 4101I-MB-PBS, MGate 4101-MB-PBS, MGate 4101-MB-PBS-T, MGate 4101I-MB-PBS-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

• Changed the minimum value of the polling interval in Modbus master commands to 10 ms.

Bugs Fixed

• MGate 4101 would sometimes return diagnostic data with Stat_Diag bit of octet 2 and Ext_Diag_Overflow bit of octet 3 set to 1 after powering on.

Changes

N/A

Notes

N/A

Version: v1.1	Build: Build 11112119
Release Date: N/A	

Applicable Products

MGate 4101-MB-PBS, MGate 4101-MB-PBS-T, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T

Supported Operating Systems

N/A

New Features

N/A

Enhancements

• Shortened the time required to set configuration, get configuration, import configuration, export configuration, and firmware upgrade.
• Changed PROFIBUS ident number from 0x0405 to 0x0D80.
• QuickLink learning function can take up to 3 Modbus master requests to learn the Modbus devices well.

Bugs Fixed

• Unable to upgrade to firmware files over 180 KB.
• MGate 4101 would sometimes reboot repeatedly after powering on.
• MGate 4101 would fail to stop providing error diagnostics for PROFIBUS when there is no timeout to expire MODBUS requests.

Changes

N/A

Notes

N/A

Version: v1.0	Build: Build 11072817
Release Date: N/A	

Applicable Products

MGate 4101-MB-PBS-T, MGate 4101-MB-PBS, MGate 4101I-MB-PBS, MGate 4101I-MB-PBS-T

Supported Operating Systems

N/A

New Features

• First release.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A