

Mini8® Loop Controller Release number HA033672-9



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1 Changes

1.1 Changes in version V6.02

Release Date: May 2025

New Features:
Maintenance release only.

Security Updates:
None in this release.

- Compatibility Notes:**
- This release will not support the migration of legacy pre V5.25 Mini8 EtherCAT configuration clone files. There is no backward compatibility past V5.25
 - It should be noted that the upgrade of existing units running firmware pre V5.25 are not supported in the field. To upgrade a pre V5.25 Mini8 unit to this new release will require the return of the unit to the nearest Eurotherm service centre.

Items Resolved:

| Ticket | Summary |
|----------|--|
| EXT-6726 | NVOL defaults during startup due to FRAM corruption during a power reset |

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1.2 Changes in version V6.01

Release Date: February 2025

New Features:

EtherNet/IP now available.

Security Updates:

None in this release.

Compatibility Notes:

- This release will not support the migration of legacy pre V5.25 Mini8 EtherCAT configuration clone files. There is no backward compatibility past V5.25
- It should be noted that the upgrade of existing units running firmware pre V5.25 are not supported in the field.
To upgrade a pre V5.25 Mini8 unit to this new release will require the return of the unit to the nearest Eurotherm service centre.

Items Resolved:

| Ticket | Summary |
|----------|--|
| EXT-6473 | Port fix of E3500-724 AM PV spikes when running serial comms |
| EXT-6512 | Ethernet variant MINI8 powered up with rotary switch set to 0xFF does not go into upgrade mode |
| EXT-6376 | MINI8 goes into standby with "NVOL parameter database load/store was unsuccessful" |
| EXT-6663 | EtherCAT task should actively place loops in safe state at startup (INIT) |

1.3 Changes in version V5.27

Release Date: September 2024

New Features:

Maintenance release only.

Security Updates:

None in this release.

Compatibility Notes:

- This release will not support the migration of legacy pre V5.25 Mini8 EtherCAT configuration clone files. There is no backward compatibility past V5.25
- It should be noted that the upgrade of existing units running firmware pre V5.25 are not supported in the field.
To upgrade a pre V5.25 Mini8 unit to V5.27 will require the return of the unit to the nearest Eurotherm service centre.

Items Resolved:

| Ticket | Summary |
|--------|---------|
|--------|---------|

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| | |
|------------|---|
| MINI8-1071 | Remove NVOL writes from interrupt service routines |
| MINI8-2 | NaN PV Generation and Management implemented |
| EXT-6473 | EtherCAT goes into standby with "Invalid RAM image of NVOL" |
| EXT-6323 | I/O cards taken from a Mini8 V5.x report as not calibrated when fitted to a unit running V3.x |
| EXT-6502 | EtherCAT TC Anomaly in Parse Wiring Algorithm to Validate Associations |
| EXT-6470 | Shock chamber TC4 issue, at over high temperatures causes invalid input reading |

1.4 Changes in version V5.25

Release Date: March 2024

New Features:

Firmware Signing, Serial Upgrade Tool, EtherCAT FoE.

Security Updates:

None in this release.

Compatibility Notes:

- This release will not support the migration of legacy Mini8 EtherCAT configuration clone files. There is no backward compatibility.
- It should be noted that the upgrade of existing units running firmware pre V5.25 are not supported in the field.
To upgrade a pre V5.25 Mini8 unit to this new release will require the return of the unit to the nearest Eurotherm service centre

Items Resolved:

| Ticket | Summary |
|------------|---|
| MINI8-937 | IO PV status doesn't match ENUM_PVStatus.h |
| MINI8-946 | 3500e Stops writing values at first block invalid write |
| MINI8-982 | Different ESI Filename for SIMULATION and REAL device with the same Clone File |
| MINI8-798 | TimeDP parameter should be cloneable |
| MINI8-955 | Enumerated user OD parameter with only one enumeration Off(1) fails to load in TwinCAT. |
| MINI8-961 | Mini8 CommsTab not displayed correctly in iTools |
| MINI8-972 | Unwired CommsTab entry should not default to SCADA table mapping when using DeviceNet |
| MINI8-973 | Align enumeration mapping between IO and EPC alarms |
| MINI8-974 | Fix sensor break value fluctuation |
| MINI8-978 | Fix calculated checksum 0xFBF3 |
| MINI8-979 | EtherCAT 0xFBF3 checksum method conflict between ESI and device |
| MINI8-1007 | Empty Recipe Synchronisation Instructions Causing Server Error |
| MINI8-1015 | Make IO.Mod.x.ElectricalFormat alterable in Configuration mode |

1.5 Changes in version V5.21

Release Date: February 2024

New Features:

Maintenance release only.

Security Updates:

None in this release.

Items Resolved:

| Ticket | Summary |
|-----------|--|
| EXT-6305 | PDO writing out-of-range values to 0x7000:11 Loop TSP should not require MINI8 reset |
| MINI8-885 | EtherCAT master reports "No valid firmware" fault code 14 |

1.6 Changes in version V5.20

Release Date: July 2023

New Features:

Support for EtherCAT (ETG.5003.2060)

Security Updates:

None in this release.

Items Resolved:

| Ticket | Summary |
|-----------|--|
| EXT-5961 | Communications Tab warning, when downloading migrated clone file |
| MINI8-692 | Modbus Client: Mini8 profile predefined parameter not being scaled properly |
| EXT-5950 | CurrentMonitor settings previously configurable in Legacy Mini8 are not available in current Mini8 |

1.7 Changes in version V5.15

Release Date: November 2022

New Features:

Maintenance release only.

Security Updates:

None in this release.

Items Resolved:

| Ticket | Summary |
|-----------|--|
| EXT-5928 | TC4/TC8 input parameter values go to NaN after exit from configuration mode |
| EXT-5937 | Unable to read alarm status value register via Modbus Comms due to incorrect data format |
| EXT-5913 | Incorrect Modbus addresses displayed in iTools |
| EXT-6010 | Assigned scaled integer Modbus addresses to LIN32 instances 5 to 8 |
| MINI8-413 | Modbus Master parameters are now loaded from the clone file |
| MINI8-468 | SCADA address reference table now references missing cells |
| MINI8-433 | Improved parameter help |
| MINI8-787 | Config Clip connection on cold-start is being unloaded by iTools |

1.8 Changes in version V5.10

Release Date: June 2022

New Features:

Maintenance release only.

Security Updates:

None in this release.

Items Resolved:

| Ticket | Summary |
|-----------|--|
| MINI8-634 | Increase CommsTab Modbus upper limit |
| MINI8-506 | Corrupt custom Lin Tables during clone creation at PLATE |
| MINI8-639 | FRAM read issue |

1.9 Changes in version V5.04

Release Date: January 2022

New Features:

New Product first release.

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