

## Mini8® Loop Controller Release number HA033672-10



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## 1 Changes

### 1.1 Changes in version V6.03

**Release Date:** Jan 2026

**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-6890	Fix encrypted password issues when using Modbus TCP Client protocol.
EXT-6838	Add ability to disable Mini8 EoE feature from custom ESI file.

## 1.2 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

## 1.3 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)

## 1.4 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
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

## 1.5 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

# Release Notes



## 1.6 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

## 1.7 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

## 1.8 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

## 1.9 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

## 1.10 Changes in version V5.04

**Release Date:** January 2022

**New Features:**

New Product first release.

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