



Sales & Service Bulletin

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New Firmware

– Release 1.8.2 for MIC850 Series Ignition Controllers

MOTORTECH has released the new firmware 1.8.2 for MIC850 series ignition controllers. Please, use the following link to download the new release. Please, read the following information to find out about new features and changes.

For updating MIC850 ignition controllers please refer to current operating manual, Rev. 07/2011, which is available for download on the internet at www.motortech.de. Check configuration before engine start up.

► www.motortech.biz/downloads/MOTORTECH-MIC850-firmware-1-8-2-15659-rev-1-3-1.zip

Release 1.8.2 – Description

A) 1.8.2 – New features and changes

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B) 1.8.2 - Fixed problems

- HMI communication interference and disconnection handling has been enhanced:
 - Automatic reinstallation of HMI software is prevented
 - The warning “display access lost warnings” is only displayed for devices with HMI
 - Timing bug which can cause undesired engine shut downs when display access has been lost

Release 1.8.1 – Description

A) 1.8.1 – New features and changes

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B) 1.8.1 - Fixed problems

- Incorrect display of some special characters on the HMI

Release 1.8.0 – Description

A) 1.8.0 – New features and changes

- Spark plug cut out at certain speed function
- If multiple ignitions is enabled, the minimum spark duration is only derived from output bank A. This also affects ASC
- Return to original maximum firing angle change per cycle

B) 1.8.0 – Fixed problems

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Release 1.6.0 – Description

A) 1.6.0 – New features and changes

- Compatibility mode for IC92x CAN communication
- Increased maximum firing angle change per cycle for faster response to control inputs

B) 1.6.0 – Fixed problems

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Release 1.4.2 – Description

A) 1.4.2 – New features and changes

- Transmission of secondary voltages for MOTORTECH ALL-IN-ONE J1939

B) 1.4.2 – Fixed problems

- Unfavorable combinations of output and ASO configuration can result in firmware crash on engine start

Release 1.4.1 – Description

A) 1.4.1 – New features and changes

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B) 1.4.1 – Fixed problems

- Unfavorable combinations of output and ASO configuration can result in firmware crash on engine start

Release 1.4.0 – Description

A) 1.4.0 – New features and changes

- Support of MOTORTECH ALL-IN-ONE J1939
- Cylinder individual timing offset handling enhanced

B) 1.4.0 – Fixed problems

- Primary shorts not detected reliably
- Missing reset of Go/NoGo signal in case of critical error
- A disadvantageous pickup configuration in combination with unfavorable circumstances could lead to engine shut down
- Wrong conversion of relative temperatures (display only)

Release 1.2.6 – Description

A) 1.2.6 – New features and changes

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B) 1.2.6 - Fixed problems

- Non volatile data (life time, runtime data, error and warning lists, alarm logs, min/max temperatures) not saved, if reset is triggered by push button 2

Release 1.2.5 – Description

A) 1.2.5 – New features and changes

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B) 1.2.5 – Fixed problems

- Switching on the HMI could lead to problems under unfavorable circumstances

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Release 1.2.4 – Description

- A) 1.2.4 – New features and changes**
- Additional CRC check of HMI software
- B) 1.2.4 – Fixed problems**
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Release 1.2.3 – Description

- A) 1.2.3 – New features and changes**
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- B) 1.2.3 – Fixed problems**
- Wrong calculation of SCR check delay

Release 1.2.2 – Description

- A) 1.2.2 – New features and changes**
- Distinction between LowPower and ShutOff
 - Software version number of HMI module and software version number compiled in the HMI have to be identical
- B) 1.2.2 – Fixed problems**
- SCR failure triggered by low power failure

Release 1.2.1 – Description

- A) 1.2.1 – New features and changes**
- Minimum recharge time between 2 outputs on the same bank reduced to the hardware limit of 2.8 ms
 - MICT-controlled HMI screenshot function
 - Enabling/disabling access control from HMI permanently
- B) 1.2.1 – Fixed problems**
- Possible crash after downloading an invalid configuration
 - Possible problem with configurations for 2-stroke engines
 - HMI auto-off time-out did not work correctly for long time-outs
 - HMI showed wrong value for secondary voltage when reduced below 10kV

Release 1.2.0 – Description

- A) 1.2.0 – New features and changes**
- Access Control
- B) 1.2.0 – Fixed problems**
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Release 1.0.0 – Description

A) 1.0.0 – New features and changes

- Runtime adjustments (Reset adjustment, spark duration adjustment, energy correction, timing correction, self-test period, cylinder individual offsets) done using the MICT or by CANopen are persistent. Because they are restored to last values after power-cycle they must explicitly be set and are not automatically reset.

B) 1.0.0 – Fixed problems

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