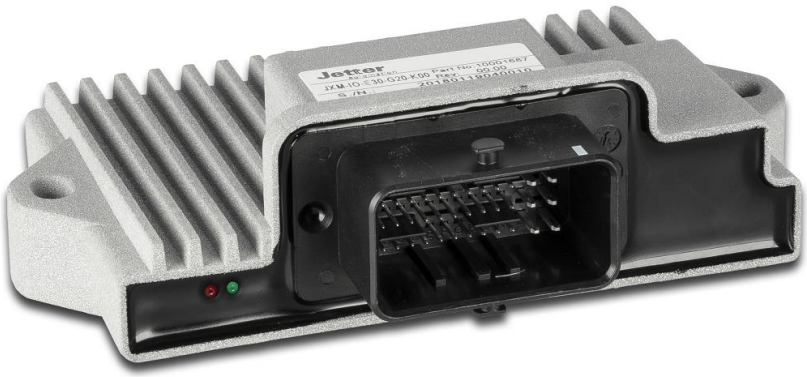
Jetter automation



# JXM-IO-E30

Version Update from V2.07.0.00 to V2.09.0.00

We automate your success.

Revision 1.06
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# 1 Changes to 2.09.0.00

**Overview Version 2.09.0.00**

The following table gives an overview of newly added or enhanced features and fixed software bugs:

| Funktion | Neu | Erweitert | Korrigiert |
|---|---|---|---|
| IDX 0x210C…0x2119: A bug when resetting set points of outputs is now fixed. When changing to state OPERATIONAL, set points are now reset to 0 in all cases. | | | ✓ |
| IDX 0x210C…0x2119: MIN_CURRENT (SubIndex 64, uint16, r/w) and OpenLoadDetection (automatically executed at system start) can now be turned off.<br>This is controlled via the new SubIndex 65, OPENCIRCUIT_DETECTION.<br>OPENCIRCUIT_DETECTION accepts the values 0=all off, 1=OpenLoadDetection is executed once during startup, 2=OpenLoadDetection and MIN_CURRENT are both active. | ✓ | ✓ | |

# 2 Changes to 2.07.0.00

**Overview Version 2.07.0.00**

The following table gives an overview of newly added or enhanced features and fixed software bugs:

| Funktion | Neu | Erweitert | Korrigiert |
|---|---|---|---|
| IDX 0x210C…0x2119: Set point values for Output ports (SubIndexe 30, 31 und 32, uint8, uint16 und uint16, r/w) now can only be set in state OPERATIONAL.<br>In PreOPERATIONAL and when entering state OPERATIONAL set point values will be set to 0 always.<br>This way, when entering state OPERATIONAL, sudden, uncontrolled actions of connected actors are prevented. | ✓ | | |

# 3 Changes to 2.06.0.00

**Overview Version 2.06.0.00**

The following table gives an overview of newly added or enhanced features and fixed software bugs:

| Funktion | Neu | Erweitert | Korrigiert |
|---|---|---|---|
| IDX 0x210C…0x2119: Output ports provide a cable break detection (SubIndex 64, uint16, r/w). Minimal current on default is 200mA for HS3CC and HS3C, else it's 500mA. When falling below the minimal current, an EMCY-message for the repsective port is sent. Also the port state will read OPEN_CIRCUIT. Only available in state OPERATIONAL. | ✓ | | |
| IDX 0x2000: Reduction of bus load, when diag indices 1 and/or 12 are beeing included in an TPDO. | | ✓ | |

# 4 Changes to 2.04.0.00

**Overview Version 2.04.0.00**

The following table gives an overview of newly added or enhanced features and fixed software bugs:

| Function | New | Enhanced | Fixed |
|---|---|---|---|
| If an output is configured to DI_NPN or DI_PNP, a pull up resistor is switched on or off for the corresponding group. Now this only depends on the latest configured interface. | | | ✓ |
| IDX 0x1010: Changes of the HeartbeatTime will now be saved. | | ✓ | |
| IDX 0x6000: Display of digital values was broken in revision 2.03.0.00.<br>This has been fixed. | | | ✓ |
| IDX 0x4556: When saving unchanged system parameter, the CRC was altered.<br>This has been fixed. | | | ✓ |
| CanOpen stack: has been enhanced. The DLC of PDOs now no more exceeds the number of bytes mapped. | | ✓ | |
| IDX 0x210C…0x210F: If Setpoint O_HCURRENT was set to 0, the ouput didn't reach 0A. Instead the output stayed within the tolerance level.<br>This has been fixed. | | | ✓ |
| Output ports are now only active in state OPERATIONAL. | ✓ | | |
| Analogue input values now have noise cancelling. The default value is 1, meaning, no noise cancellation. You can configure this in subindex 63. | ✓ | | |

# 5 Changes to 2.03.0.00

**Overview Version 2.03.0.00**

The following table gives an overview of newly added or enhanced features and fixed software bugs:

| Function | New | Enhanced | Fixed |
|---|---|---|---|
| fixed: only on hardware revision 01.00 devices: current regulation function on PWMi_H3 was not functional. This software version does not affect devices with hardware revision 02.00 or above | | | ✓ |

# 6 Changes to 2.02.0.00

**Overview Version 2.02.0.00**

The following table gives an overview of newly added or enhanced features and fixed software bugs:

| Function | New | Enhanced | Fixed |
|---|---|---|---|
| fixed: interrupting OS update resulted in an unusable device, that could only be repaired by the manufacturer. | | | ✓ |

# 7 Changes to 2.00.0.00

**Overview Version 2.00.0.00**

The following table gives an overview of newly added or enhanced features and fixed software bugs:

| Function | New | Enhanced | Fixed |
|---|---|---|---|
| implemented: AI_x analog input may be used as digital input by assigning interface type DI_PNP | ✓ | | |
| implemented: Save / restore of configuration data using IDX 0x1010 / 0x1011 | ✓ | | |
| implemented: DI_P_1 useable as additional NPN input by assigning interface type DI_PNP<br>(requires HW Rev. 02.00)<br>Interface type FI_NPN may now be assigned too | ✓ | | |
| implemented: reading of VBAT_ECU using diag object 0x2000/13<br>fixed: NodeID now is calculated based on VBAT_ECU instead of VBAT_PWR<br>(requires HW Rev. 02.00) | ✓ | | ✓ |
| implemented: bitwise PDO mapping | ✓ | | |
| fixed: Firmware updates may now be done using other baud rates than 250Kbit | | | ✓ |
| fixed: erroneous activation of PWMi_HS_3 after reset in firmware as well as in bootloader | | | ✓ |
| fixed: reading of status of SENSOR_SUPPLY was not implemented for outputs configured as digital inputs (DI_PNP) | | | ✓ |
| implemented: changed to newer version of CanOpenStack, improves over all stability | ✓ | | |
| implemented: configurable Base/NodeID in IDX 0x4556 ( System parameter ) | ✓ | | |
| improved speed of current control by changes in default values | | | ✓ |
| implemented: P parameter of current control now independent of battery voltage | ✓ | | |
| fixed: freeze (buffer overflow) due to high load of PDO-TX | | | ✓ |
| fixed: reading of SPWR_3 voltage returned SPWR_2 voltage in diag object<br>( IDX 0x02000 ) | | | ✓ |
| fixed: parameter FILTER_DEEP didn't work for all outputs of DO_H3 and PWM_H7 | | | ✓ |
| implemented: generation of errors OVERCURRENT and OVERVOLTAGE in analog inputs AI | | | ✓ |
| implemented: full functionality in regard of operating manual Version 1.20.2<br>( issued 2018-10-09 ) | | | |
| fixed: diag objects may now be mapped and transmitted via PDO | | | ✓ |
| | | | |

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