



NANO-B/C/D

Version Update

from V. 3.51 to V. 3.52



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1 Introduction

Version Updates - Survey			
Version	Function	upgraded	corrected
V. 3.52	<p>Reading out the values of digital inputs of connected JX2 expansion modules via JetWay directly could lead to malfunctioning.</p> <p>The input and output numbers 7001 through 7964 can now be used in arithmetic instructions of this kind: <code>OUT 7001 = IN 7001.</code></p> <p>Local variables integrated in functions can be used as timers.</p> <p>New supported modules at the system bus</p> <ul style="list-style-type: none"> - EPOS 24/1- Positioning controls (maxon motor ag) 	<p>✓</p> <p>✓</p> <p>✓</p>	✓
V. 3.51	<p>Sporadic failures of the JetWay interface, the local stepper motor module and a connected LCD have been eliminated</p> <p>Processing speed of NANO-B and NANO-C</p>	✓	✓
V. 3.50	<p>After restarting the controller, the analog inputs of JX-SIO are read out.</p> <p>New supported modules at the system bus</p> <ul style="list-style-type: none"> - Valve terminal EX250 (SMC Pneumatik GmbH) - ecostep drives (Jenaer Antriebstechnik) - NX frequency converters (Vacon GmbH) 	✓	✓

Important!



While the operating system is being updated, the voltage supply of the NANO must not be interrupted.

2 Expansions

2.1 Arithmetics with I/O Numbers 7xzz

Digital inputs and outputs of the I/O numbers 7xzz can from now on also be queried by means of arithmetic expressions.

The equals sign is the characteristic feature of an arithmetic expression.

```
OUT 7001 = -IN 7002
FLAG 10 = NOT (OUT 7502 AND IN 7114)
BIT_SET(100, 1) = IN 7905
```

2.2 Timers in Functions

Besides the global user registers 0 through 1999, local variables can now also be used as timers in certain functions.

```
DEF_FUNCTION (fuStartTimer, st)
Var: nlTimer

    START_TIMER (nlTimer, 10)           // start the timer
    WHEN                                           // wait, until the timer has
expired
        TIMER_END nlTimer
    THEN

    RETURN

END_DEF
```

In earlier os versions, using local variables as timers would not lead to an error report in JetSym. The transmitted program even seemed to function properly. Yet, the duration of the timer would vary with calling up the one and the same function from different tasks.

2.3 EPOS 24/1- Positioning Control

EPOS 24/1 positioning controls of the maxon motor ag can be connected to the system bus directly. For information on how to connect the EPOS 24/1 positioning control to the system bus, please refer to the corresponding documentation.

EPOS 24/1- Positioning Control



Technical Data		
Maximum amount of EPOS 24/1-positioning controls	NANO-B	10
	NANO-C	10
	NANO-D	10
Size of I/Os	8	
Module code	75	
Documentation	maxon_bi_100_betriebsanleitung in German	

3 Eliminated Software Bugs

3.1 Reading Out Input Values via JetWay

If NANO-B/C/D controllers are applied, digital inputs can be read out via JetWay directly. In version 3.51, this could possibly lead to the NANO not functioning properly. The digital inputs of connected JX2-IO modules would be affected. This has been corrected as of version 3.52.

In applications in which the values of digital inputs are read out via JetWay, making an update to version 3.52 is highly recommended.