


PNO Test Report

No PN070-1

Device on PROFINET IO

Pages / Attachments 5 / 1	File Identifier PN_070-1.doc	Department ComDeC Fürth Siemens AG I IA CE DE DP3
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Model_Name:	Sendix absolute
Vendor_Name:	KUEBLER GMBH
Revision:	1
Software/Firmware Release:	V1.1.4
Hardware Release	1
Application:	Sendix 58xx with encoder profile version 4.1
Vendor Ident Number:	0x0198
Device Ident Number:	0x0001
GSD-File:	GSDML-V2.2-Kuebler-SendixAbsolute-20100113.XML / Version 2.2 Date july 2008
MinDeviceInterval	1 ms
Used DAP(s) and Module Ident Numbers DAP 2: 58xx_EncoderProfile_4.1, 0x00000030	

Summary:
<input checked="" type="checkbox"/> suggested to be certified <input type="checkbox"/> restrictions <input type="checkbox"/> suggested <u>not</u> to be certified

Scope of test performed:

<input checked="" type="checkbox"/> Hardware	Auto_Negotiation, Auto_Polarity, Auto_Crossover
<input checked="" type="checkbox"/> Interoperability	no problems detected
<input checked="" type="checkbox"/> GSD	Version 2.2, Date 28.01.2010
<input checked="" type="checkbox"/> Statemachine	tested functionality see chapter 7
<input type="checkbox"/> Profiles	- no profiles tested -

Hints and restrictions see chapter 7!

Note: The test of the device is made according to following relevant documents and script files:

- Test Specifications for PROFINET IO devices, Version 2.2.2 from Jan 2008
- Test Cases for PN-Tester for PROFINET IO devices, Version 2.2.2.14.18

Test report

According to the specified test areas:

1. Hardware Tests

Supported Options

- Device supports Auto_Negotiation
- Device supports Auto_Polarity
- Device supports Auto_Crossover
- Hardware works properly
- further remarks:

BUS Connector

- standard RJ45
- standard M12
- non-standard, but includes all mandatory signals and sufficient description of the implementation: *see Chapter 7*
- non-standard and

2. Bus Transmission and Functionality

Control Interval Monitoring

- working within the range of 3 to 6 Bus cycles
- deviation:

Data Cycle

- Data cycle within the specified range
- Data cycle not in specified range:

Addressing the Test Item

- test item can be addressed by DCP means
- test item can be addressed by DHCP means
- other addressability:

Vendor Identifier

- as issued
- limitations:

3. Statemachine Tests

- Functionality of Name and IP address assignment correct
- all following PROFINET IO functions are supported and are carried out without problems:
Connect, RTC, RTA, Alarms
- Testcases according to version of testsystem/version electronic test cases passed
- errors:

4. Interoperability

Load Test

- load test complies with specifications
 special behaviour when:

Functional Test

- no restrictions could be determined
 restrictions when:

5. EMC and Electrical Safety

- Correct **test report** according to CE standard available

Alternatively:

- Manufacturer's declaration** according CE standard available

Alternatively:

- Correct **test report** according to IEC 61000-6-2 and IEC 61000-6-3 or EN 61000-6-2 and EN 61000-6-3 standard available

or

- Manufacturer's declaration** according to IEC 61000-6-2 and IEC 61000-6-3 or EN 61000-6-2 and EN 61000-6-3 standard available

and

- Correct test report according to IEC 61010 or EN 61010 or EIC 61131-2 standard available

or

- Manufacturer's declaration** according to IEC 61010 or EN 61010 or EIC 61131-2 standard available

- No correct EMC and Electrical Safety test reports or declarations available.

6. PROFILES

- no profiles tested

PROFIsafe

- this PROFINET IO Device has been successfully tested in combination with the PROFIsafe profile

PROFIdrive

- this PROFINET IO Device has been successfully tested in combination with the PROFIdrive profile

7. Supplementary Hints and other Restrictions

Here, verbal descriptions of the following functions are reported:

- any errors or special behaviour with reference to the respective test area
- other test product peculiarities
- remarks concerning manufacturer explanations
- remarks concerning documentation comprehension

Hints:

Tested functionality according to standard:

RT_CLASS_1, RT_CLASS_2, RT_CLASS_3, RTA, LLDP, SNMP, MIB-II and LLDP-MIB, PTCP

The device has got 2 Ports for PROFINET IO with M12 connectors.

No user Alarms triggerable at test.

The IRT testing was done with testsystem annex "spirita109" according to PROFINET IO IRT Test Cases V0.896 from June 2009.

Restrictions:

- no -

8. Attachments

The only enclosures are the measurement reports or recordings which are to inform the customer or PROFIBUS User Organization about abnormal behaviour.

All recordings are stored in the test laboratory in two separate places accessible only by test laboratory personnel. The customer and PROFIBUS User Organization can receive all recordings on demand.

Here also the actual list of test apparatus and equipment used is added.

This documentation guarantees the test's reproducibility for 4 years.

Additionally forms, depending on the marked "Scope of test performed" at the cover sheet, are listed in this section, e.g. profile test specific results.

Attachments:

- Test apparatus and equipment used (generally)**
- Additional attachments:**



Attachment № 1 to PNO Test Report



Used devices and apparatuses for PROFINET Interoperability Test

Address								Stand
MAC	IP	Device Type	Vendor Name	Vendor-ID	Device-ID	Order-No. / others	Place	HW/FW/SW/Name
---	---	Ethernet-Switch	Siemens	---	---	Scalance X208	PL	
08:00:06:94:7E:4D	192.168.0.101	Ethernet-Switch	Siemens	0x002A	0x0A01	Scalance X204irt	PL	1/V4.2.14/pnio204irt
00:A0:45:04:37:76	192.168.0.37	IL PN BK DI8 DO4	Phoenix Contact	0x00B0	0x000A	2703994	PL	2/V2.0.0/il-pn-bk-2tx
00:0F:69:00:10:9A	192.168.0.31	MDX61B+DFE32B	SEW Eurodrive	0x010A	0x0001	182x xxx x	PL	10/V1.0.0/movidrive
---	---	Ethernet-Switch	Siemens	---	---	Scalance X108	PL	
08:00:06:29:D8:4E	192.168.0.21	PP17	Siemens	0x002A	0x0401	6AV3 688-4EY06-0AA0	PL	1/V5.0.4/pp17-ii-pn
00:0E:F0:05:00:5F	192.168.0.35	CPX-Terminal	Festo	0x014D	0x0101	TN197330	PL	12/V3.0.12/cpx
00:0E:8C:84:81:57	192.168.0.99	CPU319F-3 PN/DP	Siemens	0x002A	0x0101	6ES7 318-3FL00-0AB0	PL	1/V2.7.0/cpu319f
08:00:06:6B:87:12	192.168.0.100	CPU317-2 PN	Siemens	0x002A	0x0101	6ES7 317-2EK13-0AB0	PL	1/V2.5.0/cpu317
08:00:06:6B:F5:BF	192.168.0.33	ET200S, IM151-3	Siemens	0x002A	0x0301	6ES7 151-3AA10-0AB0	PL	1/V2.0.0/et200s-2
00:0E:8C:84:5B:F7	192.168.0.23	ET200M, IM153-4	Siemens	0x002A	0x0302	6ES7 153-4AA00-0XB0	PL	1/V1.0.1/et200m-1
08:00:06:6B:81:20	192.168.0.32	ET200S, IM151-3	Siemens	0x002A	0x0301	6ES7 151-3AA00-0AB0	PL	1/V2.0.0/et200s-3
08:00:06:6B:F6:13	192.168.0.34	ET200S, IM151-3	Siemens	0x002A	0x0301	6ES7 151-3AA10-0AB0	PL	1/V2.0.0/et200s-1
00:0E:8C:84:47:F1	192.168.0.22	ET200pro, IM154-4	Siemens	0x002A	0x0305	6ES7 154-4AB10-0AB0	PL	1/V5.0.0/et200pro-1
00:03:12:04:00:60	192.168.0.102	PNHaube	TR Electronic	0x0153	0x0102	CEV65M_LA66_PN	PL	1/V3.1.0/pnhaube001
00:30:11:03:33:75	192.168.0.96	S302-YQ	Siebert	0x0161	0x0003	S(X)302-YQ	PL	1/V2.0.1/S302-yq
00:30:05:14:64:7C	192.168.0.51	PROFINET IO Tester (MoTest)	ltm	---	---	LAN-card within PC9151	PL	PROFINET IO Tester 1.5