PNO Test Report № PN153477E01

PROFINET Device

Pages / Attachments	File name	Department
6 / 0	Testreport_PNO_PNE153477E01.docx	Phoenix Testlab
		Blomberg

Responsible Party	Signature	Date
Jens Knaup		09.02.2016

Customer:	Technical Contact Person:
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Model_Name:	**TIM-PN**
Vendor_Name:	**Hottinger Baldwin Messtechnik GmbH**
Software/Firmware Release:	V1.3.0
Hardware Release	01
Application:	HBM PROFINET Torque Interface Module (TIM)
Vendor Ident Number:	**0x01AD**
Device Ident Number:	**0x0404**
GSD-File:	GSDML-V2.31-HBM-TIM-PN-20160202.xml / Version 2.31 Date March 2014
MinDeviceInterval	0,25 ms
Used DAP(s) and Module Ident Numbers	DAP TIM-PN, 0x00000200

Summary:
☒ **suggested to be certified**   ☐ **suggested _not_ to be certified**

Scope of test performed:

☒ PNIO_Version	V2.31
☒ Conformance Class	C
☒ optional Features	Legacy, MRP, Shared Device, Device_Access, IO Supervisor
☐ Application Class	no,
☐ Profiles	no,
☒ Sec Level 1 Class	III

Hints and restrictions see chapter 7!

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

- Test Specifications for PROFINET devices, Version 2.3.5.25 from Jan. 2015.
- Test System for PROFINET devices, Version 2.3.5.25.4434 with annex spirta V2.32.1.0002.

Test report
According to the specified test areas:

1. <u>**Hardware Tests**</u>

Supported Options

☒ Device supports Auto_Negotiation
☒ Device supports Auto_Polarity
☒ Device supports Auto_Crossover
☒ Cu
☐ POF
☐ PCF
☐ GOF MM
☐ GOF SM
☒ Hardware works properly
☐ further remarks: *....*

Network Connector

☒ RJ45
☐ M12 ....
☐ SCRJ (FO connector)
☐ BFOC/2.5 (IEC 60874-10, FO connector)
☐ SC-Duplex (in IEC 60874-14 ,FO connector)
☐ Hybrid connector
☐ non-standard and ....

2. <u>Bus Transmission and Functionality</u>

Control Interval Monitoring, DataHold Timer

☒ working within specified the range

☐ 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. <u>Statemachine Tests</u>

☒ Functionality of Name and IP address assignment correct

☒ all following PROFINET functions are supported and are carried out without problems: Connect, RTC, RTA, User-Alarms

☒ Testcases according to version of testsystem/version electronic test cases passed

☐ errors: ....

4. Tested functionality regarding RT_CLASS_3

Support of RT_CLASS_3

☐ no RT_CLASS_3 functionality tested according to GSD file

☒ no errors detected with RT_CLASS_3

☐ Errors detected in the following functionality ....

Application Specific Test for Synchronized Application

☒ no synchronized application supported according to GSD file

☐ synchronized application supported according to GSD file, but no tests available

☐ errors in operation ....

5. Security Level 1 Test (Net Load Test)

☒ Security Level 1 test is done according to Security Level 1 test cases V 1.1.3

☒ Supported net load class: III.
   Hint: no.

6. GSD File Check

☒ No errors in GSD File detected

☐ Errors in GSD File: ....

7. Interoperability

Interoperability

☒ no restrictions and no special behavior determined

☐ special behavior: ....

Functional Test

☒ no restrictions could be determined

☐ restrictions when: ....

8. <u>PROFILES</u>

☒ no profiles tested

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

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

PROFIenergy
☐ this PROFINET Device has been successfully tested in combination with the PROFIenergy profile

Encoder
☐ this PROFINET Device has been successfully tested in combination with the Encoder profile

9. <u>Hints and Restrictions</u>

Hints:
-no-

Restrictions:
- no -

10. <u>Attachments</u>

- no -