

TYPE APPROVAL CERTIFICATE

DNV·GL

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No. **37 886 - 12 HH**

Company **Noris Automation GmbH**
Friedrich Barnewitz Str. 10
18119 Rostock, GERMANY

Product Description **PLC system components**

Type **NORISYS 4**

Environmental Category **C (D*); EMC2 (EMC1*)**

Technical Data /
Range of Application **Supply voltage: 24VDC**
CPU Main Processor PPC 400MHz, Memory 64MB RAM, 32 MB Flash
with dedicated
4 DI (incl. 2 20kHz counter); 4 DO (relay)
1 RS-232/422/485; 2 CANbus
2 Ethernet TCP/IP, MODBUS/TCP;
1 USB Host; 1 SDHC-card interface
1 RS-485 MODBUS -RTU (Extension Bus)
Base Units
24DIO 24 digital channels (configurable)
UNIO 8PT100 PT100 inputs 8 channels (3-wire) with earth fault detection
UNIO 4AI Analogue input 4 channels
UNIO 8AI Analogue input 8 channels
UNIO 4AO Analogue output 4 channels
UNIO 8AO Analogue output 8 channels
UNIO 4AI4AO Analogue input 4 channels/Analogue output 4 channels
IOeco32DI Digital input 32 channels
IOeco16DI8R Digital input 16 channels, Relay output 8 channels
IOeco16DI4AI4AO Digitals input 16 channels, Analogue input 4 channels
Analogue output 4 channels Relay output 2 channels
IOeco16AI Analogue input 16 channels

Test Standard **Guidelines for the Performance of Type Approvals Chapter 2, Edition 2012**

Documents **Test report : Product Test Report NAR-PB-0100-3-en, 2012-01-26; Product Test Report NAR-PB-0139-1-en, 2015-09-24**
Documentation: NORISYS 4 Platform Manual V 1.65; Hardware Descr. V 0.16; Basic software routines descr. V 1.41; CPU:Drawings_091001.03; 24DIO: Drawings_091.002.03; UNIO:Drawings_091.003.03; Firmware V 079002; Hardware Desc. NAR-PD-0139-1-en,2015-01-19; Module: HG-N4-16A1-1, HG-N4-16DI4AI4AO-1, HG-N4-16DI8R-1, HG-N4-32DI-1; Firmware N4eco V1.0;

Remarks ***EMC1: Category EMC1 with filter EATON XT-FIL-1 for CPU and 24DIO**
***D: Categorie D with screw flange enclure only**
For IOeco-Units Environmental Category C only

Valid until **2021-10-17**

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File No. **I.B.07**

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Type Approval Symbol



DNV GL

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