

TYPE APPROVAL CERTIFICATE

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.	60 293 - 13 HH
Company	Noris Automation GmbH Friedrich Barnewitz Str. 10 18119 Rostock, GERMANY
Product Description	Remote Control Panels
Type	NORISYS 4 MP NORISYS 4 SP
Environmental Category	F, EMC1
Technical Data / Range of Application	The NORISYS Control Panel System are input/output modules without any application related functions. Supply Voltage: 24VDC Mounting: Desk Cut Out Protection Class: IP56 on front side System may be composed of: Control Master Panel MP-12L12B Control Transfer Unit Master MP-TU-23L9B Control Transfer Unit Extension SP-TU-7L2B Control Panel Extension SP-6L, SP-4B, SP-3L3B, SP-6L6B, Control Panel Extension with Control Lever SP-12L12B-....-LS4, SP-12L12B-....-LT4, SP-12L12B-....-LA4 Classic Control Panel Master MPc-12L12B Classic Control Panel Extension SPc-6L6B
Test Standard	GL Guidelines for the Performance of Type Approvals Chapter 2-Test Requirements for Electrical / Electronic Equipment and Systems (VI-7-2), Edition 2012
Documents	Test report :Teseq No.D/13/4085/01,2013-06-06;Teseq No.D/13/4085/02, 2013-06-06;Teseq No.D/13/4085/03,2013-06-14;Teseq No.D/13/4085/04, 2013-06-14;Teseq No.D/13/4085/05,2013-06-14;Teseq No.D/13/4085/06, 2013-06-17;Teseq No.D/13/4085/07,2013-06-14;Teseq No.D/13/4085/08, 2013-06-17;Treo No.037-13 Ver.2,2014-04-29;Treo No.038-13 Ver.2,2014-04-29;Treo No.039-13 Ver.2,2014-04-29;Treo No.040-13 Ver.3,2014-04-30;Treo No.041-13 Ver.2,2014-04-29;Treo No.042-13 Ver.5,2014-04-30;Treo No.043-13 Ver.5,2014-04-30;Treo No.044-13 Ver.2,2013-06-13;Treo No.255-13 Ver.1, 2013-11-13;Treo No.288-13 Ver.1,2014-03-07;Treo No.067-13 Ver.2,2013-06-24;Tüv No. 21207886 001, 2013-11-19;Noris No. NAR-PB-0104-1-en Ver.1.05, 2014-05-05;Noris No. NAR-PB-0104-2-en Ver.1.03,2014-05-05
Remarks	This certificate is issued on the basis of GL Guidelines for the Performance of Type Approval, Chapter 1 - Procedure (VI-7-1), Edition 2007
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Control Panel Master MP-12L12B
 Digital Inputs: 4, 12 Pushbuttons
 Digital Outputs: 4 (Relay), 2 PWM, 12 Lamps, 1 Buzzer
 Analogue Outputs: 4 (0..10V)
 Interfaces: 2 CAN, 1RS-422/485, 1N4ExtBus, 1xPRG

Control Transfer Unit Master MP-TU-23L9B
 Digital Inputs: 4, 9 Pushbuttons
 Digital Outputs: 4 (Relay), 2 PWM, 23 Lamps, 1 Buzzer
 Analogue Outputs: 4 (0..10V)
 Interfaces: 2 CAN, 1RS-422/485, 1N4ExtBus, 1xPRG

Control Transfer Unit Extension SP-TU-7L2B
 Digital Inputs: 2 Pushbuttons
 Digital Outputs: 1 PWM, 7 Lamps, 1 Buzzer
 Interfaces: 1N4ExtBus

Control Panel Extension SP-6L
 Digital Outputs: 1 PWM, 6 Lamps, 1 Buzzer
 Interfaces: 1N4ExtBus

Control Panel Extension SP-4B
 Digital Inputs: 4 Pushbuttons
 Digital Outputs: 1 PWM, 1 Buzzer
 Interfaces: 1N4ExtBus

Control Panel Extension SP-3L3B
 Digital Inputs: 3 Pushbuttons
 Digital Outputs: 1 PWM, 3 Lamps, 1 Buzzer
 Interfaces: 1N4ExtBus

Control Panel Extension SP-6L6B
 Digital Inputs: 6 Pushbuttons
 Digital Outputs: 1 PWM, 6 Lamps, 1 Buzzer
 Interfaces: 1N4ExtBus

Control Panel Extension with Control Lever SP-12L12B-....-LS4
 with integrated LS4 control lever (61975-14HH)
 Digital Inputs: 12 Pushbuttons
 Digital Outputs: 2 PWM, 12 Lamps, 1 Buzzer
 Interfaces: 2N4ExtBus

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DNV GL


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Control Panel Extension with Control Lever SP-12L12B-....-LT4
with integrated LT4 control lever (61975-14HH)

Digital Inputs: 12 Pushbuttons
Digital Outputs: 2 PWM, 12 Lamps, 1 Buzzer
Interfaces: 2N4ExtBus

Control Panel Extension with Control Lever SP-12L12B-....-LA4
with integrated LA4 control lever (61983-14HH)

Digital Inputs: 12 Pushbuttons
Digital Outputs: 2 PWM, 12 Lamps, 1 Buzzer
Interfaces: 2N4ExtBus

Classic Control Panel Master MPC-12L12B

Digital Inputs: 12 Pushbuttons
Digital Outputs: 12 Lamps, 1 Buzzer
Analogue Inputs: 2 Potentiometer 2k
Analogue Outputs : max. 1 Dimmer

Classic Control Panel Extension SPC-6L6B

Digital Inputs: 6 Pushbuttons
Digital Outputs: 6 Lamps, 1 Buzzer
Analogue Outputs: max. 1 Dimmer

Documents:

Norisys 4 Control Panel Platform Manual Ver. 1.36; Doc.No. NAR-KD-0104-1-en; 2014-04-29
Norisys 4 Master Control Panel Firmware Ver. 1.00; Doc.No. NAR-PD-0104-2-en; 2014-03-07
Norisys 4 Control Panel Platform Hardware Design Desc. Ver. 1.02; Doc.No. NAR-PD-0104-1-en; 2014-03-06
Norisys 4 Control Panel Overview Suppliers Ver. 1.01; Doc.No. NAR-PD-0104-10-en; 2013-11-27
Firmware element ModBus, Firmware routines description Ver.1.01; Doc.No. NAR-PD-0110-1-en; 2011-09-26
Noris Wiring Diagrams: SAR62-a, 2012-11-07; SAR63-a, 2012-10-18; SAR64-a, 2012-11-01; SAR65-a, 2012-12-06; SAR67-a, 2013-01-28; SAR68-a, 2012-11-07; SAR69-a, 2012-09-12; SAR70-a, 2012-10-01; SAR71-a, 2012-12-07
Noris Mechanical Documents: 092.008.03.103.B, 2013-04-26; 092.008.03.100.B, 2013-04-26;
092.008.03.109.B, 2013-04-26; 092.008.03.101.B, 2013-06-12; 092.008.03.124.A, 2013-05-08;
092.008.03.125.A, 2013-09-17; 092.008.03.133.A, 2013-11-12; 092.008.03.137.A, 2013-11-14;
092.022.03.100.B, 2013-09-09; 092.022.03.104.A, 2013-09-09; 092.008.03.127.A, 2013-09-17;
092.008.03.128.A, 2013-11-12; 092.008.03.129.A, 2013-11-12; 092.008.03.130.A, 2013-11-12;
092.008.03.131.A, 2013-11-12; 092.008.03.132.A, 2013-11-12; 092.008.03.134.A, 2013-11-12;
092.008.03.135.A, 2013-11-12; 092.008.03.136.A, 2013-11-14; 092.008.03.138.A, 2013-11-14;
092.008.03.139.A, 2013-11-14; 092.008.03.140.A, 2013-11-22; 092.008.03.141.A, 2013-11-22;
092.008.03.145.A, 2013-11-22; 092.008.03.153.A, 2014-01-14;

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