



NIPPON KAIJI KYOKAI

Certificate

Certificate No. TA10305M

OF APPROVAL

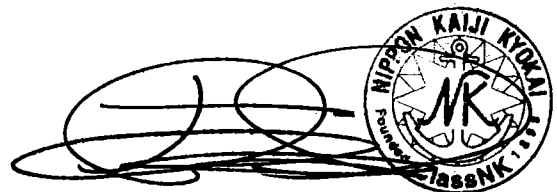
FOR AUTOMATIC DEVICES AND EQUIPMENT

Manufacturer: R. STAHL Schaltgeräte GmbH.
Place of Manufacturing: Am Bahnhof 30, 74638 Waldenburg, Germany
Product description: Remote I/O system IS1
Model: As shown on the attached sheet (-1/3, -2/3)
Approval No.: 10A016
Specification & documents: As shown on the attached sheet (-1/3, -2/3)
Testing items & approval conditions: As shown on the attached sheet (-3/3)

THIS IS TO CERTIFY that the above mentioned model of the product has been type approved in accordance with the requirements specified in Chapter 1, Part 7 of Guidance for the approval and type approval of materials and equipment for marine use and relevant Society's Rules.

This certificate is valid until 31 May 2015.

Issued at Tokyo on 1 June 2010.



T. Narisawa
General Manager
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

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Attached sheet - 1/3 to Certificate No. TA10305M

Specification & documents :

1. Ratings:

Power supply: 24V DC, 110V, 120V, 220V, 230V AC

2. Type of Models:

Unit	Component	Type No.
CPU & Power Modules (for Zone 1 or Zone 2):	CPU & Power Module	9440/15-01-11
	CPU & Power Module with socket	9440/22-01-*1 9490/1*-1*
	BusRail	9494/**-**
	Cable for BusRail	9491/Z0-VB
	Fieldbus Isolating Repeater	9185/1*-*5-10
I/O modules with IS field circuits (Ex ib or ia):	Analog Input Module	9460/12-08-11
	Analog Input Module HART	9461/12-08-*1
	Analog Output Module	9465/12-08-11
	Analog Input Module HART	9466/12-08-11
	Digital Input Module	9470/22-16-11
	Digital Output Module	9475/*2-**-*1
	Temperature Input Module	9480/12-08-11
I/O modules for Non-IS field circuits:	Temperature Input Module	9481/12-08-11
	Analog Input Module	9460/15-08-12
	Analog Input Module HART	9461/15-08-12
	Analog Output Module	9465/15-08-12
	Analog Output Module	9466/15-08-12
	Digital Input Module	9470/25-16-12
	Digital Input Module	9471/15-16-11
	Digital Output Module with Socket	9477/12-0*-12, 9490/11-3*
Digital Output Module	9477/15-08-12	
Enclosure:	Enclosure with Cable Glands	8126/-4**-*-EMV, 8163/**

-- To be continued --

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Attached sheet - 2/3 to Certificate No. TA10305M

3. Reference drawings:

Data sheet 94** General, Data sheet 9440/15, Data sheet 9440/22, Data sheet 9490,
Data sheet 9460, Data sheet 9461/12-08-11, Data sheet 9461/12-08-21,
Data sheet 9461/15, Data sheet 9465, Data sheet 9466/12, Data sheet 9466/15,
Data sheet 9470/22, Data sheet 9470/25, Data sheet 9471, Data sheet 9475/*2-04-**,
Data sheet 9475/*2-08-**, Data sheet 9477/12 and 9490, Data sheet 9477/15,
Data sheet 9480, Data sheet 9481, Data sheet 9494, Data sheet 9499 PC Software,
Data sheet 9499 DTM, Data sheet 8126, Data sheet 9185/11, Data sheet 9185/12,
94 406 02 31 0, 94 406 07 31 0, 94 406 09 31 0, 94 406 10 31 0, 94 606 01 31 0,
94 616 01 31 0, 94 616 02 31 0, 94 616 04 31 0, 94 656 01 31 0, 94 666 01 31 0,
94 666 02 31 0, 94 706 01 31 0, 94 706 02 31 0, 94 716 02 31 0, 94 756 01 30 0,
94 776 01 30 0, 94 776 02 30 0, 94 806 01 31 0, 94 816 01 31 0, 94 906 02 31 0

4. Test Report etc.

STAHL 5694/10, STAHL 5693/10, STAHL 5692/10, STAHL 5691/10,
STAHL 5648/10, STAHL 5275/08, STAHL 5277/08, STAHL 5274/08,
STAHL 4045/00, STAHL 4046/00, STAHL 4047/00, STAHL 4048/00,
STAHL 4050/00, STAHL 4107/01, STAHL 4238/02, STAHL 4334/02,
STAHL 5223/07, STAHL 5225/07, LGA 27 1439 API, KRIWAN 007402_01_G,
KRIWAN 004142_01_G, KRIWAN 006467_01_G, KRIWAN 003055_01_G,
STAHL 5602/09, TPB4601/04en, TPB4414/03en, KRIWAN 009396_01_G
Software quality control document

-- To be continued --

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Attached sheet - 3/3 to Certificate No. TA10305M

Testing items & approval conditions:

1. Testing items : Applied testing items are marked with X.

ENVIRONMENTAL TESTS		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
Insulation resistance test		X
High voltage test		X
Pressure test		--
Dry heat test (Temperature : 70°C±2°C × 16hours)		X
Damp heat test		X
Vibration test (Acceleration : ±0.7g)		X
Inclination test		X
Cold test (Temperature : -25°C × 16hours)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity (80MHz - 2GHz)		X
Conducted low frequency immunity		X
Conducted high frequency immunity		X
Burst/Fast transient immunity test		X
Surge immunity test		X
Radiated emission test (150kHz - 2GHz)		X
Conducted emission test		X
Flame retardant test		X

2. Approval conditions:

The product is not allowed to be installed in the bridge and on open decks.

-- The end --