



NIPPON KAIJI KYOKAI

COPY

## TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA23201M

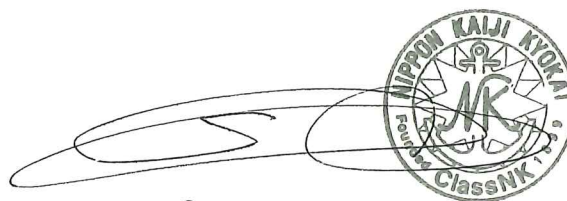
This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of "Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use" and the relevant Society's Rules.

This certificate is issued to

Manufacturer:	DEIF A/S
Place of Manufacturing:	Frisenborgvej 33, 7800 Skive, Denmark
Product description:	Panel Instruments
Model:	XL, BW, BRW-2, XDi
Approval No.:	18A005
Valid until:	25 March 2028

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 26 March 2023



S. Oishi  
General Manager  
Machinery Department

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

**Specification & documents:**

1. Particulars: Power Supply: 24 V

2. Components and reference drawings:

Type	Documents
XL72 XL96 XL144 XL192	4921250057U, 492140143W, 4189350054A
BW144 BW192	4921250057U, 492140143W, 4189350055A
BRW-2	4921250057U, 492140143W, 4189350056A
XDi 96 XDi 144 XDi 192	49221250067D, 4189350046D

3. Documentation and Test Reports:

4040000003E, 4910211100C, 4910211100D, 4040000041F, 4910213105F, 4910217501O,  
 4910217502J, 4910214505F, 4910227505J, 4910229905C, 4910217507J, 4910229901C,  
 4910229905C, 4910227555C, 4910216501J, 4910217516E, 4910227516A, 4910216502I  
 DELTA Test Report DANAK-1910397, DANAK-197861, DANAK-19/12974

Software Quality Plan (Date: 2017-06-27)

DEIF TYPE TEST CERTIFICATE RF E-FIELD IMMUNITY-TEST 02B (Ref.: 4910217502N)

DEIF TYPE TEST CERTIFICATE RADIATED EMISSION-16A (Ref.: 4910216501M)

- To be continued -

# NIPPON KAIJI KYOKAI

Attached sheet -2/2 to the Certificate No. TA23201M

## Test items & approval conditions:

### 1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS (IACS UR E10 Rev.8 basis)		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test (Temperature 55°C × 12 hours × 2cycles)		X
Vibration test (Acceleration ±0.7g×2 hours for XL, BW ±1.0g×2 hours for BRW-2 ±4.0g×2 hours for XDi)		X
Inclination test (Note 1)		X
Cold test (Temperature -25°C × 16 hours)		X
Salt mist test		X
Electrostatic discharge immunity test (Contact 6kV, Aerial 8kV)		X
Radiated radio frequency immunity test (80MHz – 6GHz)		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test (10kHz – 80MHz)		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test (150kHz — 6GHz)		X
Conducted emission test (10kHz — 30MHz)		X
Flame retardant test		X

Note 1: Inclination test was carried out for XL, BW, BRW-2.

### 2. Approval condition:

Nil

- The End -