



TYPE APPROVAL CERTIFICATE
No. ELE065221XZ/001

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Public address and general alarm system
<i>Type</i>	TPA-1007
<i>Applicant</i>	NPK Morsvyazavtomatica LLC - NPK Morsvyazavtomatica 26E, Kibalchicha str. 192174 Saint Petersburg RUSSIA
<i>Manufacturer</i>	NPK Morsvyazavtomatica LLC - NPK Morsvyazavtomatica
<i>Place of manufacture</i>	26E, Kibalchicha str. 192174 Saint Petersburg RUSSIA
<i>Reference standards</i>	Rules for the Classification of Ships - Part C - Machinery, Systems and fire protection - Ch.3, Sect.6, Tab.1.

Issued in **GDANSK** on **May 5, 2022**. This Certificate is valid until **May 4, 2027**



RINA Services S.p.A.

This certificate consists of this page and 1 enclosure



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TPA-1007

Product description:

Quantity of broadcast zones: up to 6

Quantity of ports for connection of microphone and talk-back units: up to 24

Power supply voltage: - AC 220V (+/- 10%), 50(60) Hz (+/- 5%)

-DC 24V (+30%, -25%)

Working temperature range: -15...+55°C for protected units:

- 40...+55°C for exposed units

The system consists of:

Central units: CU-200, CU-400, CU-10, CU-8, CU-20

Microphone panels: CP-6, CP-3, CP-6-19, CP-3-19, CPW-6, CPW-3, CP2-6, CP2-3, CP2-6-19, CP2-3-19, CPW2-6, CPW2-3

Combined microphone panels: CP-6.6, CP-6.3, CP-3.3, CPW-6.6, CPW-6.3, CPW-3.3, CP2-6.6, CP2-3.3, CPW2-6.6, CPW2-6.3, CPW2-3.3

Alarm panels: AP-6, AP-3, AP-6-19, AP-3-19, APW-6, APW-3, AP2-6, AP2-6-19, AP2-3-19, APW2-6, APW2-3

Combined main substations: MS-18, MS-18A, MS-36, MS-36A

Talk-back stations: S1, S1W, S2, S3, S4, S4P, S5, S5A, S1-5, S1-3, S2-5, S2-3, SW-1

Communication, coupling, distribution, switching units: SW-16-WM, POE-INJ, EC-6, KP-124-DMO, KP-124PW, KP-124, KP-124V, T-140-D, CE, RB-139G-24, RB-139G-220, FB1, ANT, DMO, DM, CBP1, HS-CB, SM-1, SM-2, SM-3, SDP, DMP, SELP

Power amplifiers: TPA-15, TPA-200, TPA-400, TPA-200S

External communication devices: M1, M2, M3-W, HS-4, HS-6, TH-4M, TH-4L, B-HS1, B-HS3, B-HS4

Signal units (Alarm devices): HW1-24, HW1-220, BH1-24, BH1-220, A-24, A-220, A2-24, A2-220, AL-24, AL-220, L-24, L-220, RL-24, RL-220, FL-24, RFL-24, RFL-220, PGS-VSPYSHKA-24, PGS-VSPYSHKA-220, ORBITA MK S, ORBITA MK Z, ORBITA MK SZ, BExS110E24DC, BExS110E230AC

Loudspeakers: LS-1, LS-2, LS-3, LS-5, LS-6, LS-7, LS-8, LS-9, LS-10, LS-12, LS-13, SDL, LF-1, DSP (Ex), GVR-Prometey

Wall-mounted metal enclosures: BO, BO-1H

Documents:

- Public Address System/ Command Talk-Back System , type TPA-1007 - Technical description -Part 1 & 2

- RMRS TAC No.19.02283.120, dated 05.11.2019

Test reports:

Test Center "Transtest"

- Test report No. 0524/1-MK : - Environmental and IP test,

- Test report No. 0530/1 -EMC test.

Remarks:

- Documents relating to each application are to be submitted to the Society's examination prior fitting on board

- The EMC requirements for installation on the Bridge and Deck Zones will be fulfilled by the equipment..

- The installation shall comply with the Manufacturer's recommendation and to the satisfaction of Flag state.

- The minimum safe distance of the equipment to a standard or a steering magnetic compass is to be considered.

GDANSK May 5, 2022





TYPE APPROVAL CERTIFICATE
No. ELE065221XZ/002

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Ship Security Surveillance TV System
<i>Type</i>	Digital COT II - 2003/1
<i>Applicant</i>	NPK Morsvyazavtomatica LLC - NPK Morsvyazavtomatica 26E, Kibalchicha str. 192174 Saint Petersburg RUSSIA
<i>Manufacturer</i>	NPK Morsvyazavtomatica LLC - NPK Morsvyazavtomatica
<i>Place of manufacture</i>	26E, Kibalchicha str. 192174 Saint Petersburg RUSSIA
<i>Reference standards</i>	Rules for the Classification of Ships - Part C - Machinery, Systems and fire protection - Ch.3, Sect.6, Tab.1.

Issued in **GDANSK** on **May 5, 2022**. This Certificate is valid until **May 4, 2027**



RINA Services S.p.A.

This certificate consists of this page and 1 enclosure



TYPE APPROVAL CERTIFICATE

No. ELE065221XZ/002

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Digital COT II - 2003/1

Product description:

Data communication network: analogue / digital (IP) / hybrid

Surveillance stations: local / remote (using Ethernet)

Diagonals of the monitors: 10' - 46'

Data recording: video / audio

Types of connected cameras: analogue (AHD) / digital (IP), without optical zoom, with optical zoom, pan tilt zoom (PTZ), thermal imaging, with infrared illumination

Power Supply Voltage: 24V DC (18-36V DC)

220V AC (+10%, -15%), 50Hz +/- 5%

Temperature range: -15°C - +55°C - for protected units

-40°C or -60°C - +55°C - for exposed units

The system consists of:

Video servers: Network Video server NVS-16, 19-NVS-16, Hybrid video server HVS-16

NVS remote clients (computers): MPC-19-4, MPC-127

NVS remote clients (panel computers): MVPC-1904, MVPC-2104, MVPC-2105, MVPC-2305, MVPC-2405, MVPC-2705, MVPC-3205, MVPC-4205, MVPC-4605

Network switches: POE-SW-8, POE-SW-16, POE-SW-24, POE-SW-8-WM, POE-SW-16-WM, SW-16, SW-16-WM, POE-INJ

Power supply and switching units: ITS-PS-1500-24, 19-PS-1000-24, 19-PS-500-24, ITS-PS-350, ITS-PS-1000-24, ITS-PS-500-24, ITS-CH-105, ITS-APS-120-24, ITS-APS-120-220, PS-103, PS-103-20, PS-114-24

Digital video cameras: CMS-100, DCIA-100, CMA-130Ex, CMS-150Ex, CMA-130Z/Ex, CMS-150Z/Ex, CMS-140Z, CMS-140Z/LW, DCMA-210Z, TMA-130, CTMS-160/10.5Z, CMS-100A, DCIA-100A

LCD displays: MV-1005, MV-1204, MV-1504, MV-1704, MV-2104, MV-2105, MV-2305, MV-2405, MV-2705, MV-3205, MV-4205, MV-4605,

Infrared projectors: IS-240, IS-100, IS-70, IS-300-A-IR, IS-300-S-IR

Swiveling devices: two-axes PTZ platform RT-1, RT-2, PTR-407Ex

Additional devices: combined motion sensor PD-1, PTZ, cameras control console PCD-1C, trackball TB1-50LF,

VGA signal splitter VD1-2, CV signal splitter CD1-3, Ethernet to coaxial signal converter SC-1, SC-2,

distribution box KP-2, KP-6, KP-124V, KP-124-VF, microphone MC-1, universal data converter MDC-145, mounting racks 19': 19IR-21, 19IR-25, 19IR-30, 19IR-34, 19IR-39, 19IR-43, 19IR-48, portable audio recorder PR-2

Documents:

- Ship security surveillance TV system, digital COTII - 2003/1 type - Technical description version 0.4

Test reports:

Test Center "Transtest"

- Test report No. 00122/1-MK : - Environmental and IP test,

- Test report No. 0131/1 -EMC test.

Remarks:

- Documents relating to each application are to be submitted to the Society's examination prior fitting on board.

- The installation shall comply with the Manufacturer's recommendation and to the satisfaction of Flag state.

GDANSK 05/05/2022

RINA Services S.p.A.
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Gdansk Wednesday, May 11, 2022

(Encl.: 4) NPK Morsvyazavtomatica LLC

26E, Kibalchicha str.
192174 Saint PetersburgRUS RUSSIA

Our Ref.: PLEL/2022/102/AME01 File No.: (XZ/2021/XZ/01/652)
Subject: Type Approval Certificate for PAGA and Ship Security Surveillance TV System

Copy to: 4) RINA RUS L.L.C.
Russia Survey Station
office 202B, 10/14 Turgeneva/Admiralteyskaya str,
Business center Kristal
414000 ASTRAKHAN (EE) RUSSIA

Thursday, May 5, 2022

We send the following approved drawings:

Number	Sheets	Date	Title Of Drawing / Your Ref	Annuls/Replaces
PLEL-1754	280	Wednesday, May 11, 2022	Technical description and data sheet TPA-1007	
PLEL-1755	74	Wednesday, May 11, 2022	Technical description- DVS-2003	

The following drawings are kept in file for information:

Number	Sheets	Date	Title Of Drawing / Your Ref	Annuls/Replaces
PLEL-1756	107	Tuesday, May 10, 2022	Test reports and RMRS certificate- Ship Security TV System	
PLEL-1757	72	Tuesday, May 10, 2022	Test reports and RMRS certificate- PAGA system	

This letter is valid in conjunction with the Type Approval Certificates Nos.: ELE065221XZ/001 & ELE065221XZ/002
The field of application and limitations are those mentioned in the Certificate.

Poland Plan Approval Centre
RINA Poland Sp. z o o (Spolka z ograniczona odpowiedzialnoscia)
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In case of any question please contact ADAM MEJER.

Yours faithfully,
RINA Services S.p.A.
RADOSLAW SOBOLEWSKI

