

Command public address/General alarm system TPA-1907



Description



Public address system / General alarm system TPA-1907 is designed to provide command broadcasting, talk-back public address communication and alarm announcement on sea- and river-going vessels for all navigational areas.

Features and Advantages

- Installation on sea- and river-going vessel for all navigational areas
- Digital communication with high-noise immunity
- Wide-range communication (up to 700 m)
- 6 independent zones
- Built-in power amplifier 200 or 400W, zone voltage 100V
- Built-in sound alarm generator
- Prior quality control of transmitted messages
- Ready for operation immediately
- Interfacing with external ship systems (i.e. Automatic Telephone System (ATS), Voyage Data Recorder (VDR), Integrated Marine Automation Systems (IMAS))
- The System can be installed using existing cabling (in case of ship amendment)
- External radio broadcast units and audio recorders can be connected

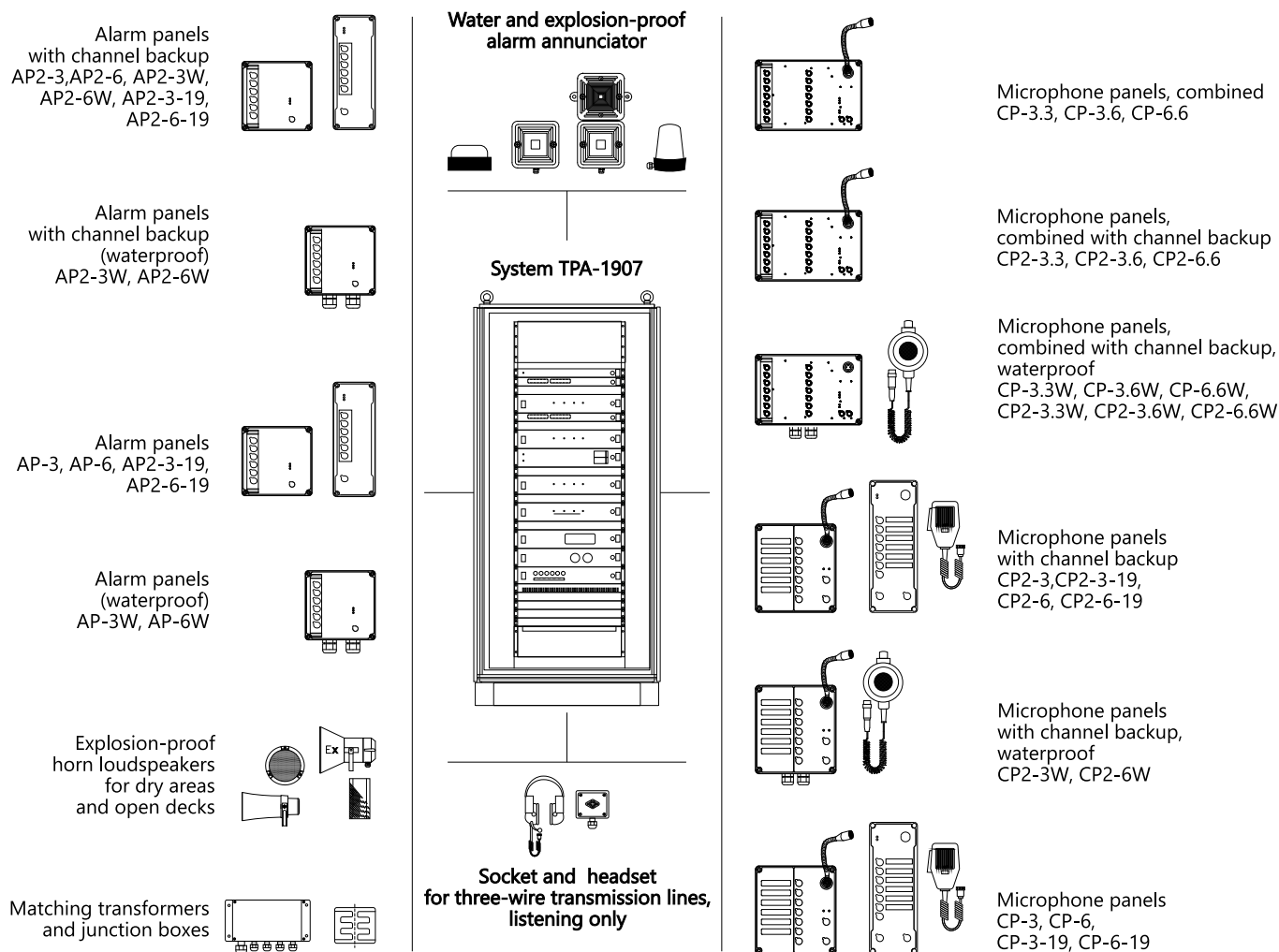
Technical specifications of TPA-1907 system

Output voltage of power amplifier	200 W 400 (200x2) W
Transmission zones voltage	100 V
Number of user lines per Central Unit	up to 6
Number of zones	up to 4
Number of connected alarm panels	up to 12
Number of amplifiers within the System	64
Number of Central Units within the System	16

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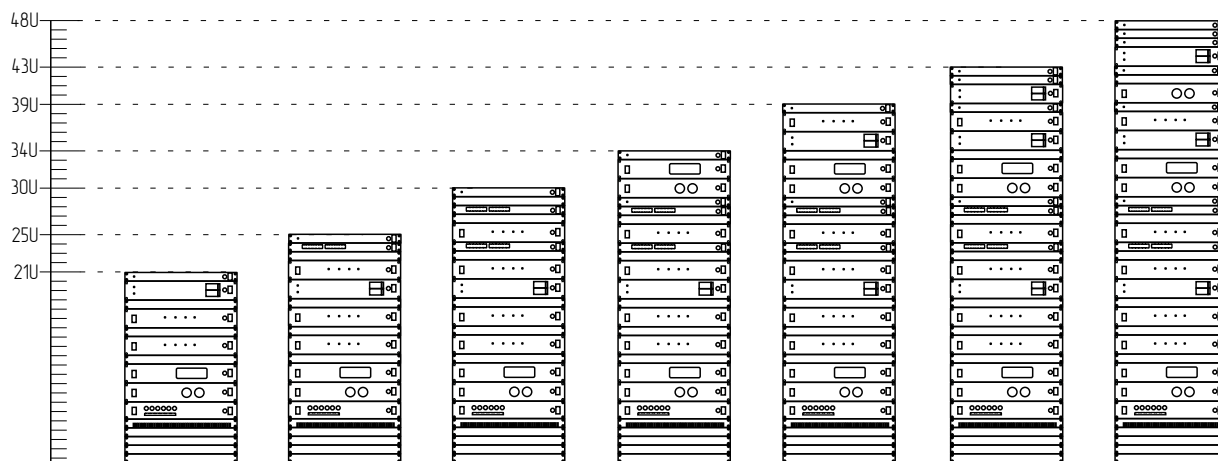
Structural diagram of the system



Mounting rack

Mounting rack 19IR

Technical characteristics	
Material	steel (painted, galvanized)
Optional number of units	21U / 25U / 30U / 34U / 39U / 43U / 48U
IP rating	IP22
Built-in ventilation system	100 W



Central Units

Central Unit 19-CU-6 / 19-CU-12

Provides power supply to the connected units (up to 6/12); ensures reception and switching of signals, received from user substations, control consoles, microphone and alarm panels. Amplifies and transmits signals to zones.



Technical characteristics:

Power supply voltage: 48 or 24 VDC
Power consumption: 130 W
Weight: 6 kg
Operating temperature: -15...+55 °C
IP rating: IP20

Mounting type:

Rack-mounted 19"

Central unit ITS-CUICB

Provides power supply to connected units (up to 12); ensures reception and switching of signals, received from user substations and control consoles.



Technical characteristics:

Power supply voltage: 48 or 24 VDC
Power consumption: 15 W
Weight: 7.2 kg
Operational temperature: -15°...+55°C
IP rating: IP20

Mounting type:

19" rack-mounting

Network switch SW-16/ SW-24

Ensures changeover of several central units.



Technical characteristics:

Power supply voltage: 48 or 24 VDC
Power consumption: 20 W
Weight: 3.6 kg
Operational temperature: -15°...+55°C
IP rating: IP20

Mounting type:

19" rack-mounting

Alarm generator 19-AG

Generates and supplies alarm signals to zones; operates in line with the combined microphone and alarm panels.



Technical characteristics:

Power supply voltage: 220 VAC 50-60 Hz and 24 VDC
Power consumption: 10W
Weight: 4.3 kg
Operational temperature: -15...+55°C
IP rating: IP 20

Mounting type:

19" rack-mounting

Zone switching unit 19-SW-4-6

Provides the reception and zone switching of ITS-CUICB signals (see Central Units). Up to 6 zones can be managed.

Technical characteristics:

Power supply voltage: 48 or 24 VDC
Power consumption: 30 W
Weight: 6.5 kg
Operational temperature: -15...+55°C
IP rating: IP20

Mounting type:

Rack-mounted 19"

Switching unit of entertainment sources (Entertainment switch) 19-ES

Receives and switches signals from up to 6 entertainment sources to zones. A microphone can be connected.



Technical characteristics:

Power supply voltage: 48 or 24 VDC
Power consumption: 30 W
Weight: 6.5 kg
Operational temperature: -15...+55°C
IP rating: IP20

Mounting type:

19" rack-mounting

Power supply unit 19-PS-1000 / 19-PS-500-24(48)

Converts input voltage of 220V 50–60Hz (main) and 24VDC (standby) into 24 or 48 VDC. Automatic transfer to standby power in case of a power supply failure.



Technical characteristics:

Power supply voltage:
- 220 VAC 50/60 Hz (main) and 24V DC (standby)
Output voltage: 24 or 48 VDC
Output power:
- 400 W – 19-PS-500;
- 800 W – 19-PS-1000
Power consumption: 1130/560W
Weight: 8.5 kg
Operational temperature: –15...+55°C
IP rating: IP20

Mounting type:

19" rack-mounting

Uninterruptible power supply unit ITS-PS-350

Converts input voltage of 220V 50/60Hz (main) into 24 VDC. Automatic transfer to the built-in storage battery in case of power supply failure.



Technical characteristics:

Input power supply: 220VAC 50/60Hz, 24VDC
Output voltage: 24VDC
Power consumption: 350W
Storage battery operation time: up to 60 min (under 10 A load)
Weight: 8.5 kg
Operational temperature: –15...+55°C
IP rating: IP20

Mounting type:

19" rack-mounting

Automatic power switch ITS-APS-120

Provides automatic mains/standby switch in case of voltage failure. 6 outputs to connect load. Ensures input voltage switching (220VAC 50/60Hz or 24VDC).



Technical characteristics:

Max switching current:
- Model A: under 220V – 10A;
- Model B: under 24V – 60A.
Weight: 5.2 kg
Operational temperature: –15...+55°C
IP rating: IP20

Mounting type:

19" rack-mounting

Standby power supply unit ITS-CH-105

Charges external storage battery (24VDC, capacity 200 Ah) and supplies rack devices from the chargeable battery.



Technical characteristics:

Power supply voltage: 110-220 VAC, 50-60 Hz
Weight: 8.5 kg
Operational temperature: –15...+55°C
IP rating: IP20

Mounting type:

19" rack-mounting

Audio control unit 19-PKV

Audio quality control of messages transmitted by zones.



Technical characteristics:

Power consumption: 5 W
Weight: 1.9 kg
Operational temperature: –15...+55°C
IP rating: IP20

Mounting type:

19" rack-mounting

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Entertainment source 19-ES

Transmits entertainment programs from USB, radio (AM/FM), CD/DVD to transmission zones.



Technical characteristics:

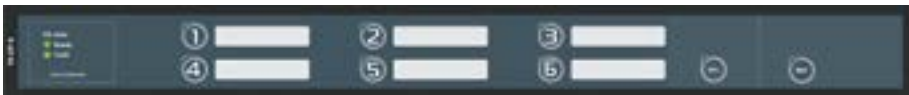
Power supply voltage: 24 or 48VDC
Power consumption: 25W
Weight: 4.8 kg
Operating temperature: -15...+55 °C
IP rating: IP20

Mounting type:

19" rack-mounting

Broadcasting control unit 19-CP-6

Transmits voice messages to max 6 selected zones.



Technical characteristics:

Power consumption: 5W
Weight: max 1.2 kg
Operating temperature: -15...+55 °C
IP rating: IP20

Mounting type:

19" rack-mounting

Power amplifier 19-TPA-200/19-TPA-400

Amplifies input signals from Central units and media broadcasting sources. Simultaneous operation by two independent sources. Max. output power is 200 or 400 (2x200) W, 100 V.



Technical characteristics

Power supply voltage: 24 or 48 VDC
Weight: 19.5 kg
Operating temperature: -15...+55 °C
IP rating: IP20

Mounting type:

19" rack-mounting

Zones operation check units 19-KTL-6/OKTL-1

Provides automatic operation control of up to 6 zones (rupture, overvoltage, short-circuit) using the control signals returned to response terminal. 19" rack or wall mounting available.



Technical characteristics

Power supply voltage:
- 220 VAC 50-60 Hz or 24/48 VDC
Power consumption: 30 W
Weight: 6.5/0.5 kg
IP rating: IP20/ IP56
Operational temperature:
15...+55°C / -40...+55 °C

Mounting type:

19" rack-mounting
Wall-mounted

Microphone panels



Microphone panel

CP-3-19/ CP-6-19/ CP2-3-19/ CP2-6-19

Transmits voice messages to selected zones. Depending on the model, it can be connected to either one or two independent system racks. Number of zones are 3 or 6. Operates with M-1, M-2 microphones (see Microphones)

Technical characteristics:

Max. power consumption: 8 W

Weight: 0.7 kg

Operational temperature: -15°...+55°C

IP rating: IP44

Mounting type:

Console-mounted



Microphone panel

CP-3/ CP-6/ CP2-3/ CP2-6

Transmits voice messages to selected zones. Depending on the model, it can be connected to either one or two independent system racks. Number of zones to select are 3 or 6. Operates with M-1, M-2 microphones (see Microphones).

Technical characteristics:

Max. power consumption: 8 W

Weight: 1.7 kg

Operational temperature: -15°...+55°C

IP rating: IP44

Mounting type:

Wall-mounted

Console-mounted

Bracket-mounted



Microphone panels (waterproof)

CP-3W/ CP-6W/ CP2-3W/ CP2-6W

Transmits voice messages to selected zones. Depending on the model, it can be connected to either one or two independent system racks. Number of zones to select: 3 or 6. Operates with M-3-W and M-3-10-W microphones (see Microphones).

Technical characteristics

Max. power consumption: 8 W

Weight: 1.8 kg

Operational temperature: -40...+55°C

IP rating: IP56

Mounting type:

Wall-mounted



Combined microphone panels

Combined microphone panel

**CP-3.3/ CP-6.3/ CP-6.6/ CP2-3.3/ CP2-6.3/
CP2-6.6**

Transmits voice messages and supplies alarm signals to the transmission zones.

Depending on the model, it can be connected to either one or two independent system racks. The first digit in product name specifies the number of zones, the second one – the number of alarm signals.

Operates with M-1, M-2 microphones (see Microphones).

Technical characteristics

Power consumption: 9 W
Weight: 2.3 kg
Operational temperature: -15°...+55°C
IP rating: IP 44

Mounting type:

Wall-mounted
Console-mounted
Bracket-mounted



Combined microphone panel (waterproof)

**CP-3.3W/ CP-6.3W/ CP-6.6W/ CP2-3.3W/
CP2-6.3W/ CP2-6.6W**

Transmits voice messages and supplies alarm signals to transmission zones.

Depending on the model, it can be connected to either one or two independent system racks. The first digit in product name specifies the number of zones, the second one – the number of alarm signals.

Operates with M-3-W and M-3-10-W microphones (see Microphones).

Technical characteristics

Power consumption: 9W
Weight: 2.5 kg
Operational temperature: -40...+55°C
IP rating: IP56

Mounting type:

Wall-mounted

Alarm panels

Alarm panel AP-3/ AP-6/ AP2-3/ AP2-6

Supplies either 3 or 6 alarm signals to zones. Depending on the model, it can be connected to either one or two independent system racks.

Technical characteristics:

Power consumption: up to 7 W
Weight: 1.7 kg
Operational temperature: -15°...+55°C
IP rating: IP 44

Mounting type:

Wall-mounted
Console-mounted
Bracket-mounted





Alarm panel (waterproof) **AP-3W/ AP-6W/ AP2-3W/ AP2-6W**

Supplies alarm signals to zones. Depending on the model, it can be connected to either one or two independent system racks. Up to 3 or 6 alarms can be supplied.

Technical characteristics:

Power consumption: 7 W
Weight: 2.2 kg
Operational temperature: -40...+55°C
IP rating: IP56

Mounting type:

Wall-mounted



Alarm panel **AP-3-19/AP-6-19/ AP2-3-19/AP2-6-19**

Supplies alarm signals to zones. Depending on the model, it can be connected to either one or two independent system racks. Up to 3 or 6 alarms can be supplied.

Technical characteristics:

Power supply: from a subscriber line
Power consumption: 7W
Weight: 0.6 kg
Operational temperature: -15...+55°C
IP rating: IP 44

Mounting type:

Console-mounted

User substation

The System is compatible with the user substations of the ICB-131 System (see User substations in catalogue Command talk-back system ICB-131).