

COMPACT TRAIN PUBLIC ADDRESS SYSTEM

RRU253C, VRU253C, SRU253C

Device description

The train public address system (PA) central units xRU253C are compact components designed for all kinds of railway vehicles. They ensure the sound distribution in the passenger spaces according to the UIC568 standard.

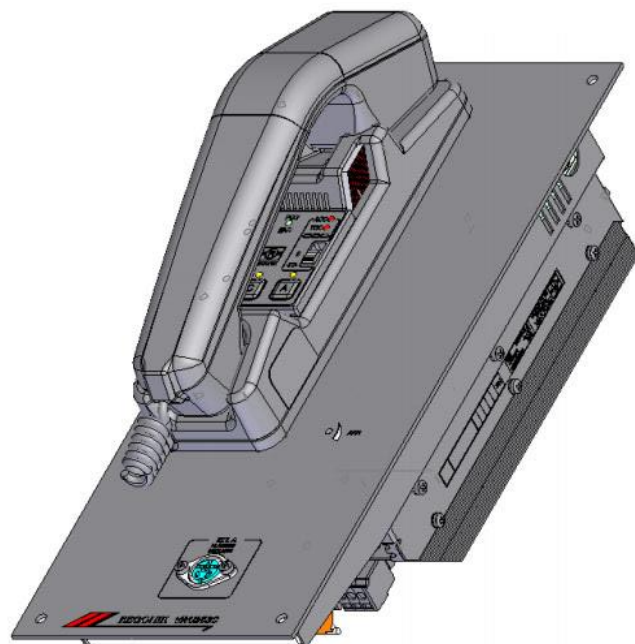
TYPES:

- Locomotive PA unit RRU253C,
- Passenger car PA unit VRU253C,
- Staff compartment PA unit SRU253C

There is a master micro telephone device with control and signal elements of the PA unit on the front panel of the switch-board and a DIN-6 socket for connection of the MP3 indicator. The WAGO type connecting contacts for connection of the power supply are on the backside, for 8+1 wires of the continuous information line according to UIC558, for program input from the car radio or other source and a 9-polar SUB-D socket with signals according to the UIC568 standard for mobile music and speech device. The PA unit has to be installed in a suitable place where the conductors have access. If needed, it is possible to install the unit separately into the fuse board and the control telephone device on an ergonomically accessible place.

In case that the whole train is connected with a continuous line according to UIC558 standard and equipped with radio devices according to UIC568 standard, the PA unit offers following functions:

- Make a telephone call with the train staff.
- Broadcast an announcement for passengers. A triple tone gong precedes the announcement.
- The radio switchboard can broadcast the announcements either to the whole train or only to the local car (setting by the address switch „car/train“).
- The priority signal is automatically generated along with the announcement; it intercepts the eventual broadcasting of the program channel, switches the announcement on and sets the volume to maximum with no respect to the settings of the program volume controllers (the so called forced broadcast).



- Send the „MUTE“ signal to the neighbouring controlled amplifiers in the car itself during the announcement, to prevent the unwanted acoustic feedback.
- Connect the mobile music and speech device according to the chapter 4 of the UIC568s standard with the 8-polar connector according to the attachment 3 of the UIC568 standard.

In addition to the UIC568 standard recommendation the REGONIK VRU250C switchboard allows you to:

- Connect directly (without the 8-polar UIC-connector) a car radio, a music player, or another source of the program signal (music, recorded text, etc.)
- Address the broadcasted program to the whole train or only to the local car.
- Set automatically the volume for the local car according to the overall noise in the car near the switchboard
- Change the setting of the mutual banning, the connection establishment and priorities according to the customer needs even in a way different from the UIC standard recommendation (e.g.: for city transport, mountain railway, etc.), done by the simple software modification via the accessible programming connector.

Technical parameters

- operating voltage 16,8 to 32V
- Power consumption of the system without the load is max. 1W
- symmetrical, galvanically separated car radio input, input impedance min 20 kOhm
- asymmetrical input for MP3- indicator
- input for musical instrument symmetrical, input impedance 20 kOhm
- entry for the microphone, MP3-indicator and the program equipped with limiter
- output lines:
 - the car internal line(AUDIO), asymmetrical with automatic regulation
 - output resistance of the line amplifier AUDIO 3-level - 12dB, -6dB, 0dB, individually adjustable according to the noise level
 - nominal output voltage of the terminal nf-amplifier 5,0 V
 - maximum output of the terminal nf-amplifier 50W / 0,5 Ohm, sinus
- connection points of the WAGO clamps for Cu wires 0,75 + 2,5 mm²
- operative temperature -30°C to +60°C
- dimensions: h =330, w =140, d =120
- weight 3kg

