



# Announcement Panel

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Public Transport Vehicle's Announcement System



## Announcement Panel



### General description

The **Announcement Panel** is installed in public transport vehicles to deliver voice announcements inside the vehicle. It manages the audio system, providing functionality for:

- ✓ broadcasting announcements through the passenger area speakers,
- ✓ enabling communication between the Passenger Intercom and the Announcement Panel,
- ✓ facilitating communication between Announcement Panels located in different compartments or operator cabins,
- ✓ transmitting audio content from an external audio device.



### Functionality

- ✓ Making announcements via broadcast speakers
- ✓ Receiving calls from passenger intercoms
- ✓ Connecting to another cabin or conductor compartment
- ✓ Depending on the available space on the driver's console, the announcement panels can be supplied in two configurations — vertical (V) or horizontal (H)

The operational status of the panel is indicated by LED indicators located on the rear panel.



### Additional accessories

The **Announcement Panel** is designed to work with:

- ✓ DMG-600 microphone
- ✓ DMG-450 microphone

connected to the XLR socket on the panel's front.

Additional compatible devices include:

- ✓ KMT-01 micro telephone – connected to the X4 (DB9) socket located on the rear panel of the case,
- ✓ handheld microphone with a pear-shaped design, such as DH-95NP – connected through a 6.3mm Jack plug to the LINE\_IN socket on the front panel.

## Announcement Panel

### Technical parameters

Supply voltage	24 VDC
Operating Temperature Range	-25°C to 70°C
IP rating	IP20
Maximum power consumption	15 W
Internal microphone	Yes
Dimensions	84x150x122
Weight	0,75 kg
MTBF	80 000 hrs

#### ETHERNET

Number of interfaces	1
Data transmission speed	10/100 Mb/s
Standard	10base-T, 100base-T
Connector type	M12 D-Coded
Galvanic isolation	Yes <sup>1)</sup>

#### Technical specifications of the DMG-600 Microphone

Characteristic	cardioid
System	dynamic
Band	200 – 12 000 Hz
Nominal impedance	500 Ω
Sensitivity	2 mV/Pa/1kHz
Dimensions	Ø 21 mm x 565 mm
Weight	0,162 kg

<sup>1)</sup> 500 VRMS AC, 50 Hz, 1 min, according to EN 50155

#### DUAL STATE INPUTS

Number of inputs	2
Input current	10 mA @ 24 V
Galvanic isolation	Yes <sup>1)</sup>

#### SYMMETRICAL OUTPUTS

Number of outputs	2
Output voltage	±24V
Maximum output current	300 mA
Current efficiency	200 mA
Galvanic isolation	No

#### Technical specifications of the DMG-450 Microphone

Characteristic	cardioid
System	dynamic
Band	80 – 16 000 Hz
Nominal impedance	500 Ω
Sensitivity	1,4 mV/Pa/1kHz
Dimensions	Ø 30 mm x 450 mm
Weight	0,170 kg

### Types of microphones compatible with the announcement panel



051.019.201 KMT-01 Micro telephone



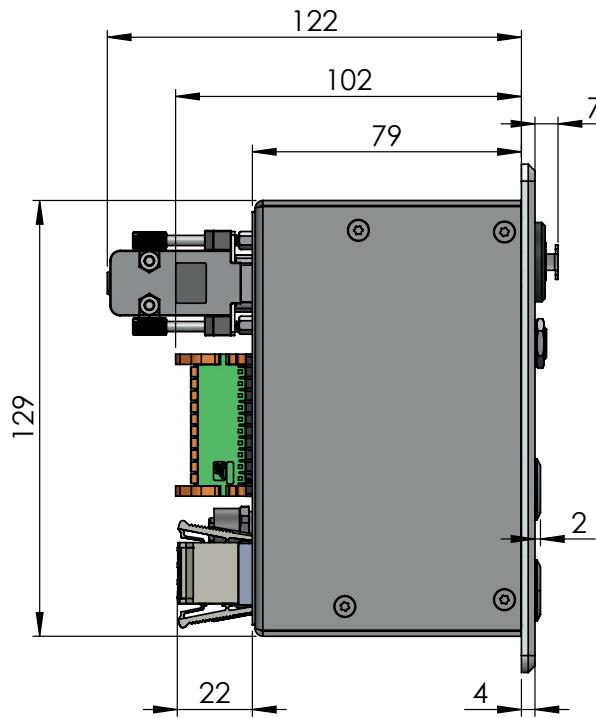
051.019.204 DH-95NP Microphone



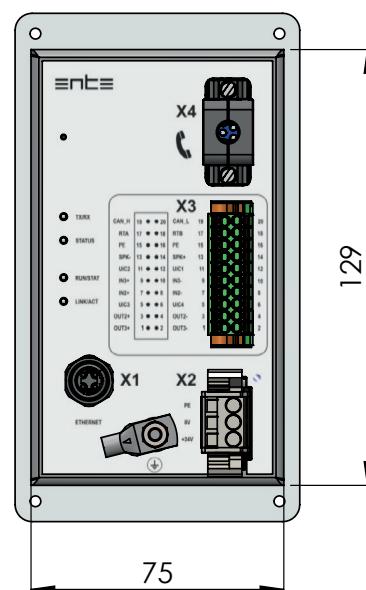
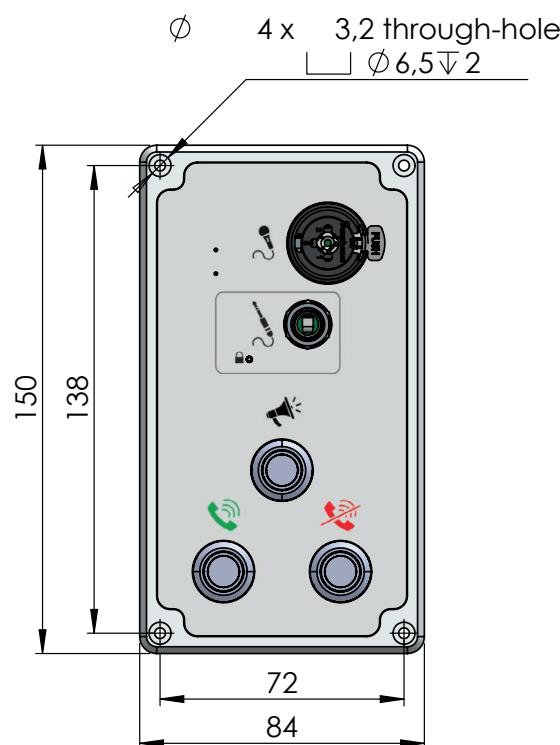
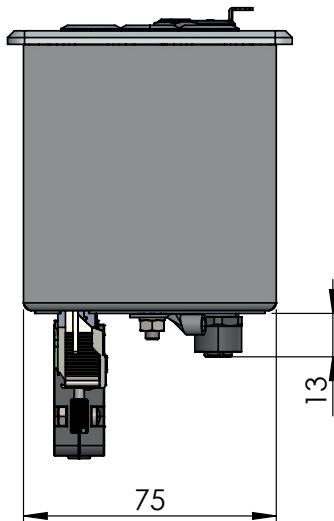
051.019.202 DMG-600 Microphone



051.019.203 DMG-450 Microphone



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## Compliance with Standards

- EN 50155** Railway applications - Electronic equipment used in rolling stock.
- EN 50121-3-2** Railway applications- Electromagnetic compatibility.
- EN 45545-2** Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behaviour of materials and components
- EN 61373** Railway applications - Rolling stock equipment - Shock and vibration tests.

