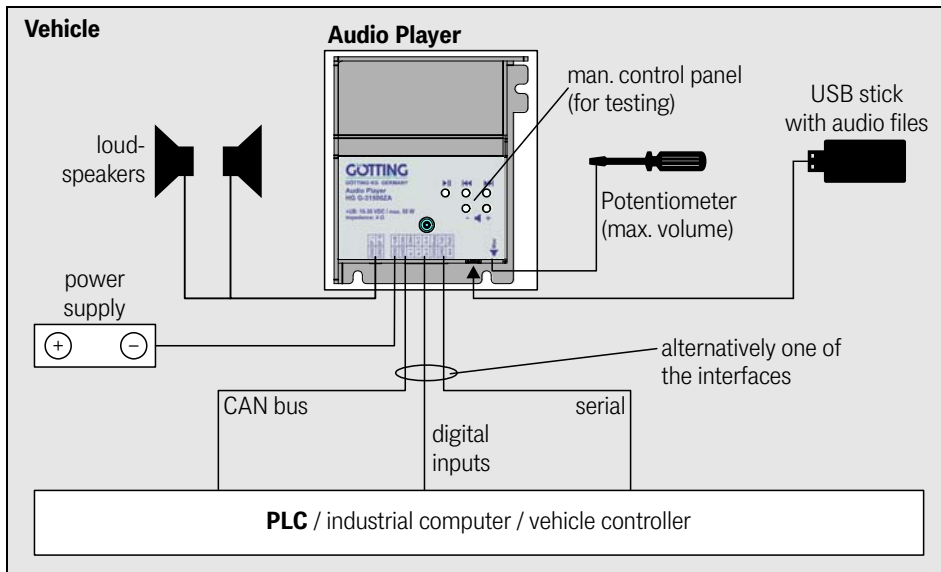


Overview



Main Functions

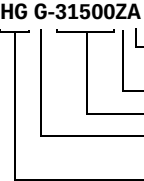
- ♦ Audio player for automated guided vehicles (AGV)
- ♦ Control via CAN / digital inputs (PLC) / serial (RS 232) / buttons (function test)
- ♦ Voltage supply range: 10 – 30 VDC
- ♦ Supported formats: MP3/WAV
- ♦ Slot for an USB stick with audio files, up to 22 files usable in the stick's root directory
- ♦ Nominal output: 2 x 10 watt @ 4 Ohm (peak output max. 2 x 25 watt, to be taken into consideration when selecting loudspeakers)
- ♦ Potentiometer for limiting the maximum volume
- ♦ Installation via mounting lugs / optionally top-hat rail mounting (s. table *Variants* on the backside)

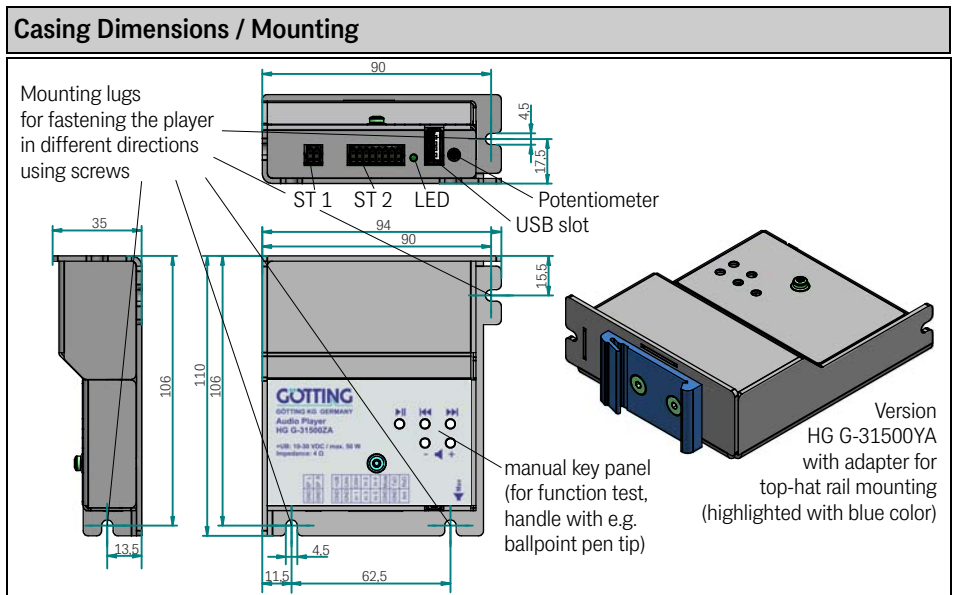
During the operation of automated guided vehicles (AGV) there often is a demand to let the vehicle play notification sounds at specified positions throughout the track. For these applications Götting has developed the audio player HG G-31500-A.

Interfaces

The audio player stands out due the variety of its interfaces. They allow the selection and playback of audio files. The voltage supply range of 10 – 30 V ensures that the player can easily be integrated into a vehicle.

- CAN interface for the connection with the vehicle's CAN bus: Selection of one of up to 255 audio files, control of playback and volume.
- Serial interface (RS 232): Selection of one of up to 255 audio files, control of playback and volume.
- Five digital inputs via which e.g. a PLC can select between the first five audio files on the stick.

Pin Assignments	
ST 1	Loudspeaker
1 SP L	⊕ Loudspeaker left
2 GND	⊖ Loudspeaker left
3 SP R	⊕ Loudspeaker right
4 GND	⊖ Loudspeaker right
ST 2	Interfaces
1 +UB	Supply
2 GND	Ground
3 CAN-	CAN bus
4 GND	
5 CAN+	
6 In 1	Digital inputs (SPS)
7 In 2	
8 In 3	
9 In 4	
10 In 5	
11 Mode	Mono / Stereo (see below)
12 GND	
13 TxD	serial interface RS 232
14 GND	
15 RxD	
16 Ant	—
Note	
The audio player does not contain internal loudspeakers. External loudspeakers and the USB stick are not part of the scope of supply.	
Factory Settings	
<ul style="list-style-type: none"> • Mode: Stereo • Potentiometer: Maximum position 	
Mono/Stereo Operation	
In case only one loudspeaker is to be connected it is advisable to use the mode <i>Mono</i> . For this alternatively:	
<ul style="list-style-type: none"> • Use mono audio files. • Connect GND with the input <i>Mono</i> to force mono operation (ST 2: connect Pin 11 with Pin 12). 	
Standby Mode	
Using the telegrams (serial/CAN) the standby bit can be set. In standby mode the current consumption drops to 0,02 A @ 24 Volt. The wake-up time is approx. 1 second	
Versions/Variants	
HG G-31500ZA	Mounting lugs
HG G-31500YA	Mounting lugs and adapter for top-hat rail mounting (see image top right)
Götting Product IDs (order codes)	
HG G-31500ZA	
 <ul style="list-style-type: none"> Production series (no functional relevance) Functional Model / Version Identification Number / Type G: Device K: Component S: System W: Software HG: Götting HW: Resale 	



Selection of Audio Files on the USB Stick

The files are either selected via the 5 digital inputs or interface telegrams (serial resp. CAN). Using the 5 digital inputs one of the first 5 audio files on the USB stick can be selected.

Using the telegrams of either the CAN or serial interface it is possible to (also randomly) choose from up to 255 audio files. Volume (0 to 100 %) and duration (1 to 255 seconds/full file) can be specified. The potentiometer limits the maximum volume.

As long as a voltage of 8 to 30 VDC is applied to one of the digital inputs 1 to 5 the corresponding audio file is played back at maximum volume. The volume is controlled via the potentiometer.

Additionally the buttons on the device's top side can be used for testing. Handle them with a pointed object (e.g. ballpoint pen tip).

Technical Data	
Dimensions	94 mm x 110 mm x 35 mm (W x H x D without top-hat rail adapter)
Casing	Aluminum plate
Weight	approx. 185 g (without top-hat rail adapter)
Protection class	IP 20
Relative humidity	95 % @ 25° C (without condensation)
Temperature ranges	Operation: +10° C to +60° C / Storage: -40° to +85° C
Voltage supply	10 - 30 VDC, nominal voltage 24 VDC
Output power	Nominal output 2 x 10 W @ 4 Ohm Peak output 2 x 25 W @ 4 Ohm (potentiometer set to max, nominal voltage or higher, audio files with recording level of 100%)
Current consumption	Operation 0,07 A to 2 A / standby 0,02 A (see box to the left)
Connectors	1x 4 pin loudspeakers, 1x 16 pin interfaces, nominal wire cross section connection cable 0,5 mm ²
Interfaces	<ul style="list-style-type: none"> - CAN bus: CAN Basic, Baudrate 500 kBaud, Node ID 100_{dez}, without terminator - serial RS 232: 115200 Baud, 8N1 - USB 2.0 for memory stick - Digital inputs (see below)
Digital inputs	5x, active for 8 to 30 VDC – as long as a digital input is active no telegrams are evaluated
File formats	WAV, MP3 up to 320 kbit/s
Controls	5 buttons, 1 LED, potentiometer for limiting the maximum volume
Operation modes	Standard: Stereo / optional: Mono (see box to the left)



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