Viatron GmbH - KNX MultiRoom Audio - Autrix Technical Manual

Contents Page

1 General description:

The Autrix is an Audiomatrix with integrated amplifier stages. With the Autrix music can be distributed into varies areas. Scope of application is from private homes to office buildings.

Basically due to the modulare structure, there is the possibility of various expansion options.
The basic version is available with the following technical features:

Input:	4 stereo audio input (NF signals)
Output:	up to 8 speaker output (8 Ohm)
	2 stereo audio output (NF signals)

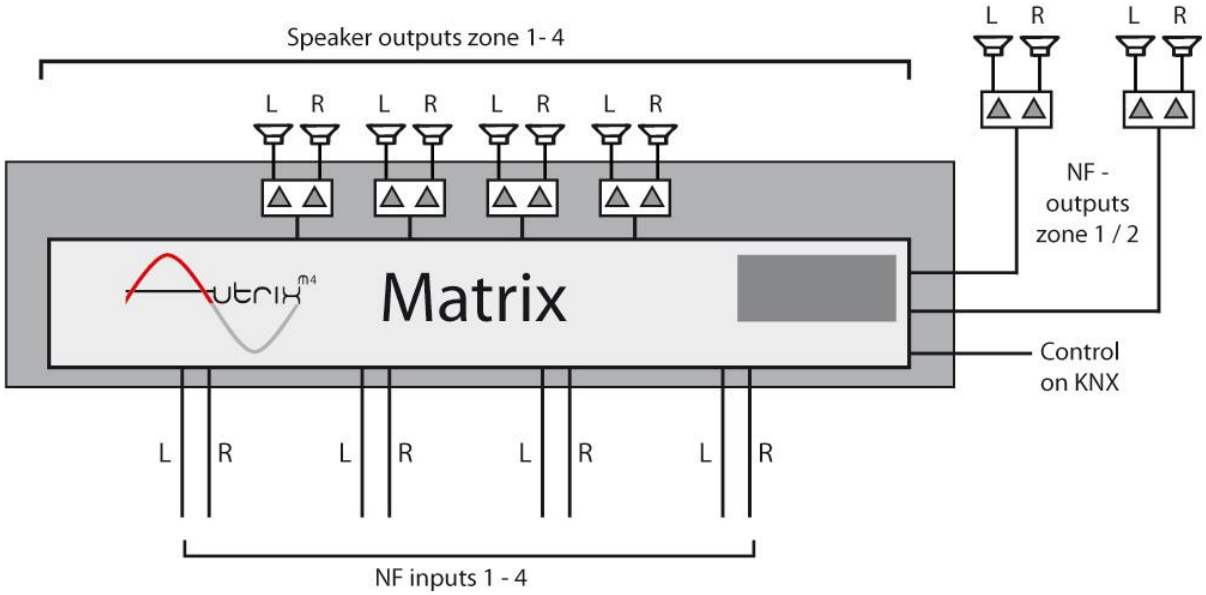
The AUTRIX is directly connected to the KNX building bus. So the controlling can be made by the installed switch range/visualisation.

The device can also be controlled directly over the front panell located on front of the device.

2 Block diagramm

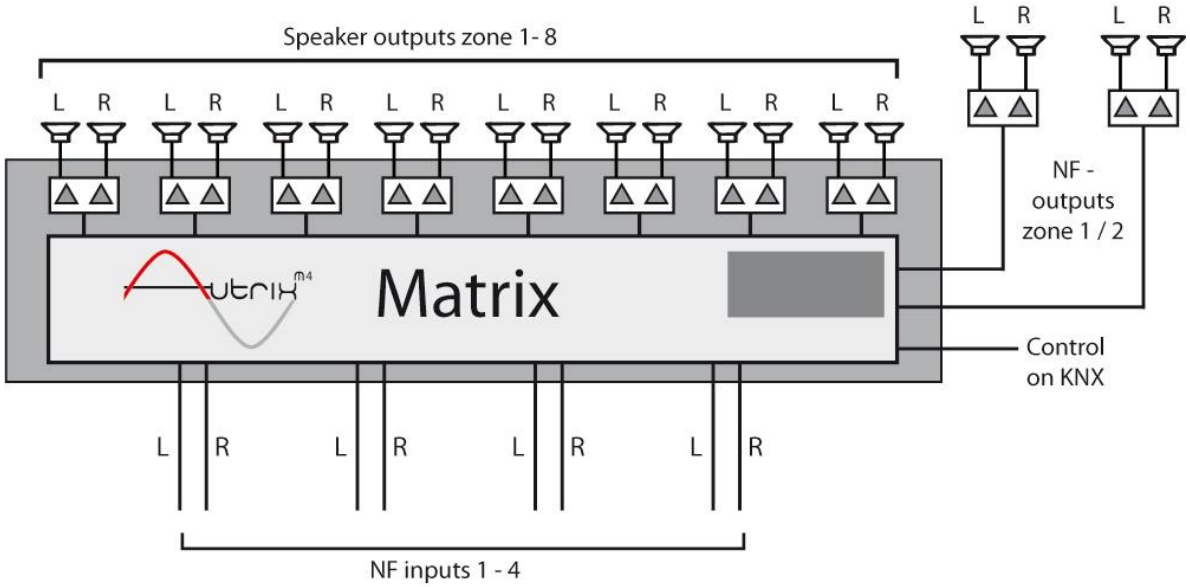
2.1 Schema Autrix with 4 zones

Figure: Schema Autrix with 4 amplifier zones



2.2 Schema Autrix with 8 zones

Figure: Schema Autrix with 8 amplifier zones

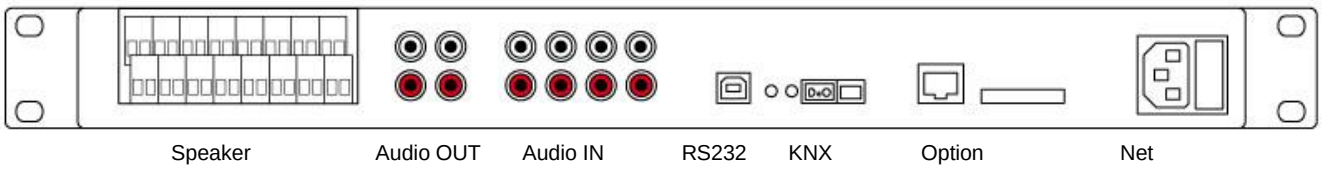


3 Connections to he unit (rear side oft he unit)

Electrical voltage !

Working on electrical systems or devices could be a danger to life due to possible hazard of electric shock or fire hazard!
Work on the 230 V network may only be carried out by skilled electricians!

Figure: rear side of unit



3.1 Loudspeaker connections

Only speakers with the following features can be connected to the AUTRIX:
Capacity: min. 30 W
Impedance: 8 Ohm

The speaker cabling is connected to the Autrix via srew terminals. These srew terminals allow the connection of cabels up to 2,5 qmm.

3.2 Audio Output (NF)

In addition to the amplifier outputs the Autrix also sends unreinforced audio signals. These signals can be connected to external amplifier.There are two of those audio outputs available:
Audio signal of zone 1 (stereo)
Audio signal of zone 2 (stereo)
These NF-signals are logically connected to the same KNX communication objects, as the amplifier output.

3.3 Audio Input (NF)

Up to 4 onsite audio devices, are connected to the 4 audio NF inputs (stereo RCA sockets) of the Autrix. These audio input signals are then available for all integrated amplifier stages (up to 8 amplifier).

3.4 RS232 Port

Not available in current version.

3.5 KNX Port

The connection to the KNX bussystem occurs by screw terminal type Hartmann/PTR BU9502, which is included in the scope of delivery.
The power consumption of the KNX connection is listed in the data sheet.

3.6 Option

The ports are not occupied and irrelevant for the operation at the KNX system.

3.7 Power Supply

The power supply is send to the Autrix via a power cord (IEC60320-C13), which is included in the scope of delivery.

4 KNX Object description / general functions

4.1 General describtion

The Autrix comes with several data interfaces. Which means that the device can be activated over several protocols. Normaly the device is destined for the connection to the KNX builduíng bus. This section describes the controlling of the Autrix over the KNX communication objects..

4.2 Switching the Amplifier board ON/OFF

Object	Designation	Function	Data type
1	Amplifier board ON/OFF	switch	1.001 ON/OFF
2	Amplifier board ON/OFF	status	1.001 ON/OFF

Via the communication object 1 the amplifier board can be switched ON or OFF. Object 2 sends back the status. Even after switching off the amplifier boards the Autrix can still receive or send telegrams.
Switching off the amplifier board is recommended, if the autrix will not be in use for a longer period of time (for example: nighttime, vaccation etc.).

4.3 Amplifier - board temperature

Object	Designation	Function	Data type
3	Amplifier board temperature	status	9.001 temperature

The object sends the temperature of the amplifier board as a status to the KNX bus. The correspondent telegram will always be send, if the temperature has changed by minimum 1 degree.

4.4 Master mute ON / OFF

Object	Designation	Function	Data type
4	Master mute ON/OFF	switch	1.001 ON/OFF
5	Master mute ON/OFF	status	1.001 ON/OFF

Via the communication object 4 the master mute can be switched ON or OFF. Object 5 sends back the status. If master mute (value 1) is set, all amplifiers are on silent.
The value 0 sets the amplifier back to the state before the muting.
Switching off the amplifiers via the master mute is recommended, when all amplifier outputs need to be set to silent momentary (for example incomming phonecall, announcement etc.).

4.5 Alarm - overheating

Object	Designation	Function	Data type
8	Alarm overheating	status	1.002 Boolesch

In case of overheating of the system this object will be sent with value 1.
At the end of the alarm (temperature back to normal) the status will send the value 0.
During the period of the alarm the Autrix M4 is switched off automatically. Afterwards the Autrix M4 needs to be turned on again (through KNX Bus or trough the front panel oft he device).

5 KNX Object description / Amplifier

5.1 Anplifier n: Input signal - stepwise

Object	Designation	Function	Data type
31	Amplifier 1 Input-signal stepwise	step	1.007 step
51	Amplifier 2 Input-signal stepwise	step	1.007 step
71	Amplifier 3 Input-signal stepwise	step	1.007 step
91	Amplifier 4 Input-signal stepwise	step	1.007 step
111	Amplifier 5 Input-signal stepwise	step	1.007 step
131	Amplifier 6 Input-signal stepwise	step	1.007 step
151	Amplifier 7 Input-signal stepwise	step	1.007 step
171	Amplifier 8 Input-signal stepwise	step	1.007 step

The input signals for the amplifiers (audio zones) are selected via these communication objects. There are 4 input signals available. By sending the value 1 to a communication object, it will be switched to the next higher input number. Equivalent the value 0 switches to the next lower input number.

5.2 Amplifier n: Input signal - value

Object	Designation	Function	Data type
32	Amplifier 1 Input signal-value	value	5.010 counting impulse
52	Amplifier 2 Input signal-value	value	5.010 counting impulse
72	Amplifier 3 Input signal-value	value	5.010 counting impulse
92	Amplifier 4 Input signal-value	value	5.010 counting impulse
112	Amplifier 5 Input signal-value	value	5.010 counting impulse
132	Amplifier 6 Input signal-value	value	5.010 counting impulse
152	Amplifier 7 Input signal-value	value	5.010 counting impulse
172	Amplifier 8 Input signal-value	value	5.010 counting impulse

The input signals for the amplifiers (audio zones) are selected via these communication objects.
There are 4 input signals available. Sending…….

….value 1 connects the amplifier n with the audio input 1.
….value 2 connects the amplifier n with the audio input 2.
….value 3 connects the amplifier n with the audio input 3.
….value 4 connects the amplifier n with the audio input 4.

Value 0 would clear the routing.

5.3 Amplifier n: Input signal - status

Object	Designation	Function	Data type
33	Amplifier 1 Input signal-status	status	5.010 counting impulse
53	Amplifier 2 Input signal-status	status	5.010 counting impulse
73	Amplifier 3 Input signal-status	status	5.010 counting impulse
93	Amplifier 4 Input signal-status	status	5.010 counting impulse
113	Amplifier 5 Input signal-status	status	5.010 counting impulse
133	Amplifier 6 Input signal-status	status	5.010 counting impulse
153	Amplifier 7 Input signal-status	status	5.010 counting impulse
173	Amplifier 8 Input signal-status	status	5.010 counting impulse

Via these communication objects the Autrix M4 sends back the number of the audio input, which was currently selected.

5.4 Amplifier n: Mute ON / OFF

Objekt	Designation	Function	Data type
34	Amplifier 1 Mute ON/OFF	switch	1.001 ON/OFF
35	Amplifier 1 Mute ON/OFF	status	1.001 ON/OFF
54	Amplifier 2 Mute ON/OFF	switch	1.001 ON/OFF
55	Amplifier 2 Mute ON/OFF	status	1.001 ON/OFF
74	Amplifier 3 Mute ON/OFF	switch	1.001 ON/OFF
75	Amplifier 3 Mute ON/OFF	status	1.001 ON/OFF
94	Amplifier 4 Mute ON/OFF	switch	1.001 ON/OFF
95	Amplifier 4 Mute ON/OFF	status	1.001 ON/OFF
114	Amplifier 5 Mute ON/OFF	switch	1.001 ON/OFF
115	Amplifier 5 Mute ON/OFF	status	1.001 ON/OFF
134	Amplifier 6 Mute ON/OFF	switch	1.001 ON/OFF
135	Amplifier 6 Mute ON/OFF	status	1.001 ON/OFF
154	Amplifier 7 Mute ON/OFF	switch	1.001 ON/OFF
155	Amplifier 7 Mute ON/OFF	status	1.001 ON/OFF
174	Amplifier 8 Mute ON/OFF	switch	1.001 ON/OFF
175	Amplifier 8 Mute ON/OFF	status	1.001 ON/OFF

Via these communication objects the amplifier mute can be switched ON or OFF. If the amplifier mute (value 1) is set, the equivalent amplifier is set on silent. Value 0 sets the amplifier back to the state before the muting.
The master mute (see previous chapter) is always higher ranking than the amplifier (zone) mute. If master mute is set, all zones (amplifiers) are muted. But the master mute does not overwrite the communication object of the muting of the individual amplifiers. So if the master mute is set to vealue 0, again this data point is relevant to mute or unmute the individual zone.

5.5 Amplifier n: Volumne - status

Objekt	Designation	Function	Data type
33	Amplifier 1 Volume status	status	5.001 percent (0-100)
53	Amplifier 2 Volume status	status	5.001 percent (0-100)
73	Amplifier 3 Volume status	status	5.001 percent (0-100)
93	Amplifier 4 Volume status	status	5.001 percent (0-100)
113	Amplifier 5 Volume status	status	5.001 percent (0-100)
133	Amplifier 6 Volume status	status	5.001 percent (0-100)
153	Amplifier 7 Volume status	status	5.001 percent (0-100)
173	Amplifier 8 Volume status	status	5.001 percent (0-100)

Via these communication objects the Autrix sends back the currently volume level of an amplifier.

6 KNX Object description / Sound settings

6.1 Amplifier n: Treble, setting - steppwise

Object	Designation	Function	Data type
39	Amplifier 1 Treble stepped	step	1.007 step
59	Amplifier 2 Treble stepped	step	1.007 step
79	Amplifier 3 Treble stepped	step	1.007 step
99	Amplifier 4 Treble stepped	step	1.007 step
119	Amplifier 5 Treble stepped	step	1.007 step
139	Amplifier 6 Treble stepped	step	1.007 step
159	Amplifier 7 Treble stepped	step	1.007 step
179	Amplifier 8 Treble stepped	step	1.007 step

The amplifier treble setting can be controlled via these communication objects.
The data point is intended for steppwise modification of the trebles. When the value 1 is sent to a communication object, the system switches to the next highest value. Accordingly, the value 0 switches to the next lowest value.

6.2 Amplifier n: Treble, setting - value

Object	Designation	Function	Data type
40	Amplifier 1 Treble values	value	5.001 percent (0-100)
60	Amplifier 2 Treble values	value	5.001 percent (0-100)
80	Amplifier 3 Treble values	value	5.001 percent (0-100)
100	Amplifier 4 Treble values	value	5.001 percent (0-100)
120	Amplifier 5 Treble values	value	5,001 percent (0-100)
140	Amplifier 6 Treble values	value	5,001 percent (0-100)
160	Amplifier 7 Treble values	value	5,001 percent (0-100)
180	Amplifier 8 Treble values	value	5,001 percent (0-100)

The amplifier treble setting can be controlled via these communication objects. Using the data point, an amplifier can be set directly to a specific value.

6.3 Amplifier n: Treble - status

Object	Designation	Function	Data type
41	Amplifier 1 Treble status	status	5.001 percent (0-100)
61	Amplifier 2 Treble status	status	5.001 percent (0-100)
81	Amplifier 3 Treble status	status	5.001 percent (0-100)
101	Amplifier 4 Treble status	status	5.001 percent (0-100)
121	Amplifier 5 Treble status	status	5.001 percent (0-100)
141	Amplifier 6 Treble status	status	5.001 percent (0-100)
161	Amplifier 7 Treble status	status	5.001 percent (0-100)
181	Amplifier 8 Treble status	status	5.001 percent (0-100)

The Autrix sends the treble setting status value back to the appropriate zone using these communication objects.

6.4 Amplifier n: Middle, setting - steppwise

Object	Designation	Funktion	Datentyp
42	Amplifier 1 Middle steppwise	step	1.007 step
62	Amplifier 2 Middle steppwise	step	1.007 step
82	Amplifier 3 Middle steppwise	step	1.007 step
102	Amplifier 4 Middle steppwise	step	1.007 step
122	Amplifier 5 Middle stepped	step	1.007 step
142	Amplifier 6 Middle steppwise	step	1.007 step
162	Amplifier 7 Middle steppwise	step	1.007 step
182	Amplifier 8 Middle steppwise	step	1.007 step

The middle setting can be controlled via these communication objects. The data point is intended for steppwise modification of the middles. When the value 1 is sent to a communication object, the system switches to the next highest value. Accordingly, the value 0 switches to the next lowest value.

6.5 Amplifier n: Middle, setting - value

Object	Designation	Function	Data type
43	Amplifier 1 Middle value	value	5.001 percent (0-100)
63	Amplifier 2 Middle value	value	5.001 percent (0-100)
83	Amplifier 3 Middle value	value	5.001 percent (0-100)
103	Amplifier 4 Middle value	value	5.001 percent (0-100)
123	Amplifier 5 Middle value	value	5.001 percent (0-100)
143	Amplifier 6 Middle value	value	5.001 percent (0-100)
163	Amplifier 7 Middle value	value	5.001 percent (0-100)
183	Amplifier 8 Middle value	value	5.001 percent (0-100)

The middle setting can be controlled via these communication objects. Using the data point, an amplifier can be set directly to a specific value.

6.6 Amplifier n: Middle - status

Object	Designation	Function	Data type
44	Amplifier 1 Middle status	status	5.001 percent (0-100)
64	Amplifier 2 Middle status	status	5.001 percent (0-100)
84	Amplifier 3 Middle status	status	5.001 percent (0-100)
104	Amplifier 4 Middle status	status	5.001 percent (0-100)
124	Amplifier 5 Middle status	status	5.001 percent (0-100)
144	Amplifier 6 Middle status	status	5.001 percent (0-100)
164	Amplifier 7 Middle status	status	5.001 percent (0-100)
184	Amplifier 8 Middle status	status	5.001 percent (0-100)

The Autrix sends the middle setting status value back to the appropriate zone using these communication objects.

6.7 Amplifier n: Bass, setting - steppwise

Object	Designation	Function	Data type
45	Amplifier 1 Bass steppwise	step	1.007 step
65	Amplifier 2 Bass steppwise	step	1.007 step
85	Amplifier 3 Bass steppwise	step	1.007 step
105	Amplifier 4 Bass steppwise	step	1.007 step
125	Amplifier 5 Bass steppwise	step	1.007 step
145	Amplifier 6 Bass steppwise	step	1.007 step
165	Amplifier 7 Bass steppwise	step	1.007 step
185	Amplifier 8 Bass steppwise	step	1.007 step

The bass setting can be controlled via these communication objects. The data point is intended for steppwise modification of the basses. When the value 1 is sent to a communication object, the system switches to the next highest value. Accordingly, the value 0 switches to the next lowest value.

6.8 Amplifier n: Bass, setting - value

Object	Designation	Function	Data Type
46	Amplifier 1 Bass value	value	5.001 percent (0-100)
66	Amplifier 2 Bass value	value	5.001 percent (0-100)
86	Amplifier 3 Bass value	value	5.001 percent (0-100)
106	Amplifier 4 Bass value	value	5.001 percent (0-100)
126	Amplifier 5 Bass value	value	5.001 percent (0-100)
146	Amplifier 6 Bass value	value	5.001 percent (0-100)
166	Amplifier 7 Bass value	value	5.001 percent (0-100)
186	Amplifier 8 Bass value	value	5.001 percent (0-100)

The bass setting can be controlled via these communication objects. Using the data point, an amplifier can be set directly to a specific value.

6.9 Amplifier n: Bass - status

Object	Designation	Function	Data type
47	Amplifier 1 Bass status	status	5.001 percent (0-100)
67	Amplifier 2 Bass status	status	5.001 percent (0-100))
87	Amplifier 3 Bass status	status	5.001 percent (0-100)
107	Amplifier 4 Bass status	status	5.001 percent (0-100)
127	Amplifier 5 Bass status	status	5.001 percent (0-100)
147	Amplifier 6 Bass status	status	5.001 percent (0-100)
167	Amplifier 7 Bass status	status	5.001 percent (0-100)
187	Amplifier 8 Bass status	status	5.001 percent (0-100)

The Autrix sends the bass setting status value back to the appropriate zone using these communication objects.

7 KNX object description / Input gain

7.1 Explanation

Any number of audio sources can be connected to the 4 audio inputs of the Autrix. Such audio sources must hand over their signal as an analogue LF signal (normally via cinch socket).

As various audio sources may supply output levels of different strengths, appropriate compensation can take place on the Autrix. For this, the 4 inputs on the Autrix can be set independently of one another. This setting is termed input amplification. In the as-delivered state, a medium input gain is assigned to all the inputs. This presetting can be changed as necessary using the following communication objects. The settings described in this chapter are intended for first start-up. Normally, the input sensitivity of an input need not be changed in later system operation.
Please note that a high input amplification can lead to distortion of the music signal!

7.2 Audio input n: Setting the input gain - steppwise

Object	Designation	Function	Data type
191	Input 1 Input gain steppwise	step	1.007 step
194	Input 2 Input gain steppwise	step	1.007 step
197	Input 3 Input gain steppwise	step	1.007 step
200	Input 4 Input gain steppwise	step	1.007 step

The input gain of the appropriate audio input can be controlled via these communication objects. The data point is intended for steppwise modification of the input amplification. When the value 1 is sent to a communication object, the system switches to the next highest value. Accordingly, the value 0 switches to the next lowest value.

7.3 Audio input n: Setting the input gain - value

Object	Designation	Function	Data type
192	Input 1 input gain value	value	5.001 percent (0-100)
195	Input 2 input gain value	value	5.001 percent (0-100)
198	Input 3 input gain value	value	5.001 percent (0-100)
201	Input 4 input gain value	value	5.001 percent (0-100)

The input gain of the appropriate audio input can be controlled via these communication objects. Using the data point, the input can be set directly to a specific input gain.

7.4 Audio input n: Input gain - status

Object	Designation	Function	Data type
193	Input 1 Input gain status	status	5.001 percent (0-100)
196	Input 2 Input gain status	status	5.001 percent (0-100)
199	Input 3 Input gain status	status	5.001 percent (0-100)
202	Input 4 Input gain status	status	5.001 percent (0-100)

The Autrix sends the status value of the input gain of the appropriate audio input back via these communication objects.

8 KNX object description / Setting (save/reset)

8.1 Explanation

In the as-delivered state, the Autrix is already assigned with a default sound setting. These settings are suitable for most requirements.
If necessary, the sound settings can be adapted to construction-side conditions using the named KNX communication objects.
Such adaptations can be saved permanently in the Autrix via an additional data point. This ensures that, after voltage returns, the Autrix works with the adapted sound settings.

The data point "Reset" allows restoration of the factory sound settings.
In order to save these permanently to the Autrix, the above-mentioned data point can be used to save sound settings.

During the saving operation (approx. 5 seconds), the Autrix does not react to bus telegrams.

8.2 Sound settings: Save

Object		Designation	Function	Data type
	10	Save sound settings trigger	trigger	1.017 (0-1)

The sound settings can be saved permanently using these communication objects.

8.3 Sound Settings: Reset

Object		Designation	Function	Data type
	11	Sound settings reset trigger	trigger	1.017 (0-1)

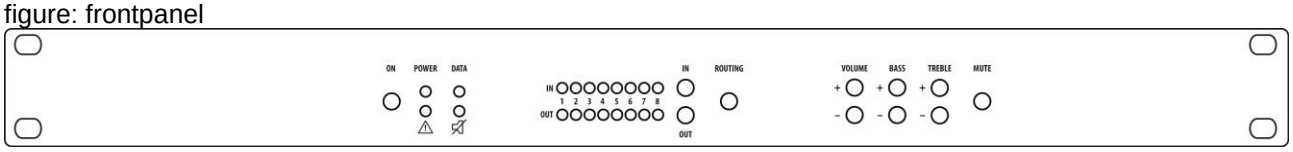
The default sound settings can be recalled using these communication objects.

9 Operating via frontpanel

The Autrix also can be controlled via the frontpanel keyboard, independently of the KNX building bus.
The following functions are available:

- switching the amplifier board On/Off
- volume setting
- routing (assigning an input source to an amplifier zone)
- adjust bass settings
- adjust trebel settings
- master mute ON/OFF

figure: frontpanel



9.1 Power / ON - OFF

Via this button the Autrix can be switched on or off. The green „power“ LED shows the current state.
In off state the Power-LED is also off. The Autrix is than in a stand-by-mode and can be turned on again at any time. During the stand-by-mode the Autrix can also be turned on again by the KNX-interface.

9.2 Setting an input source for a zone

To allocate a certain input signal to a zone, the following operating steps must be accomplished:

1) selecting the input signal:
   for this purpose the „IN“ key has to be pushed/confirmed until the LED line „IN“ shows the required input-number.

2) selecting the target zone:
   for this purpose the „OUT“ key has to be pushed/confirmed until the LED line „OUT“ shows the required zone number.

3) confirming the selection (input signal/target zone):
   for this purpose the „ROUTING“ key has to be pressed. This key works after the toggle principle: pressing the key several times changes the status between:
   - tieding the preselectet output / input
   - untieding the preselectet output / input

9.3 Setting the volumne for a zone

To set the volume for a zone, the following operating steps must be accomplished:

1) Selecting the target zone:
   for this purpose the „OUT“ key needs to be pressed until the LED line „Out“ shows the required zone number.
2) Setting the volume:
   for this purpose the keys „VOLUME+“ and „VOLUME-„ need to be pressed. Accordingly to which key is being used, the volume changes in the before selected zone. The currently set value will be shown in the LED line „IN“.

9.4 Setting the tone control for a zone (bass control)

To adjust the bass for a zone, the following operation steps must be accomplished:

1) Selecting the target zone:
   for this purpose the „OUT“ key needs to be pressed until the LED line „Out“ shows the required zone number.
2) Adjusting the bass:
   for this purpose the keys „BASS+“ and „BASS-„ need to be pressed. Accordingly to which key is being used, the volume changes in the before selected zone. The currently set value will be shown in the LED line „IN“.

9.5 Setting the tone control for a zone (treble control)

To adjust the trebels for a zone, the following operation steps must be accomplished:

1) Selecting the target zone:
   for this purpose the „OUT“ key needs to be pressed until the LED line „Out“ shows the required zone number.
2) Adjusting the trebels:
   for this purpose the keys „TREBLE+“ and „TREBLE-„ need to be pressed. Accordingly to which key is being used, the treble changes in the before selected zone. The currently set value will be shown in the LED line „IN“.

9.6 MasterMute / ON - OFF

The use of the function MasterMuste sets the Autrix to complete silence.
Over the „MUTE“ key, it can be turned on or off.

This key works after the Toggle principle:

pressing the key several times changes at a time the status between:
mute (muting) and unmute (cancel muting)

pressing the key several times changes the status between:
- mute (muting)
- unmute (cancel muting)

The actual state is shown at the LED „MUTE“ (icon „crossed out speaker“)

10 Installing and connecting the device

The device is mounted in a 19" rack. A free SCHUKO® socket is required for mounting.
• Connect the bus cable.
• Connect the LF inputs and loudspeaker outputs.
• Connect the power supply cable.

The Programming button and LED and the interfaces are only accessible from the rear side of the device. If possible, load the physical address and application software into the device before final mounting.

Because of the fact, that the device doesn´t come with a main switch, it should be secured separately through a proper and appropriate marked domestic installation fuse located in the electric dirstributor.

11 Technical Data

11.1 Data sheet

Technical Data	Autrix M4.4	Autrix M4.8
Power supply	110 VAC to 240 VAC	110 VAC to 240 VAC
Protection rear side of the unit	T 1,0A	T 2,0A
Protection top of the unit	T 10 A	T 10 A
Number audio input (NF)	4	4
Number speaker output	4x stereo	8x stereo
Operating temperature range	0 C° bis 45 C°	0 C° bis 45 C°
Power consumption max* (115 V)	ca. 181 W	ca. 397 W
Power consumption max* (230 V)	ca. 177 W	ca. 391 W
Power consumption Stand-by (115V)	ca. 5 W	ca. 5,5 W
Power consumption Stand-by (230V)	ca. 6 W	ca. 6 W
Current consumption KNX Bus	9mA	9 mA
Protection class	IP20 - DIN EN 60529	IP20 - DIN EN 60529
Weight	3,0 kg	3,3 kg
Dimension in mm (B/H/T)	483 / 44,5 / 230	483 / 44,5 / 230
Type of mounting	19 Zoll rack-mounting or wall-mounting (flat)	19 Zoll rack-mounting or wall-mounting (flat)

*The power consumption at medium to high volume at all 8 stereo zones. The power consumption could increase with particularly bass accentuated audio contents and very high volume.

11.2 System and error messages (LEDs Front)

The Autrix comes with LED´s placed on the frontpanel, which are arranged as followed:

Channel LEDs:

8 x LED Input
8 x LED Output

Status LEDs:

1 x Power
1 x Data
1 x Alert (symbol „warning triangle“)
1 x Mute (symbol „crossed out speaker“)

See functions of LED´s in the following table:

Function	POWER LED	ALERT LED	Data LED	Mute LED	OUTPUT LEDs
Boot process completed	**ON**	**x**	**x**	**x**	**x**
alarm overheating	**x**	**ON**	**x**	**x**	**x**
KNX data traffic	**x**	**x**	**FLASH**	**x**	**x**
Data saving	**blink**	**x**	**x**	**x**	**x**
Master Mute ON	**x**	**x**	**x**	**ON**	**x**
Master Mute OFF	**x**	**x**	**x**	**OFF**	**x**

12 Maintenance and care

Do not use acidly aids or resolvents to clean the device.
The device can be cleaned from the outside with a dry cloth.

Otherwise the device is maintenance free. If damaged due to transportation or storage, no repairs should be carried out.

13 Important Information

13.1 Liability exclusion

Despite of verification of the content of this publication according to the conformance with the Hard-and Software, deviation from describtion is not always completely excluded. Therefore we assume no liability. Necessary corrections will be part of the subsequent publications.

We reserve the right to make technical changes or modify the contents of this document without prior notice

Installation and mounting of electrical devices may only be carried out by a electrically skilled person.
Thereby the effective accident prevention regulations must be strictly adhered.
If installation instructions are not being observed, damages at the device itself, fire or other hazards could occure.

This manual is part of the product and has to remain at the end user.

13.2 Approved use

The Autrix is intended to be installed stationary indoor.
Mounted in a 19“ rack system IEC 60297.

13.3 Warranty

We provide a warranty in accordance with the statutory requirements.
Please send the device exempt from postage, with a description of the defect
and in its original packaging to our service center (Viatron GmbH, Barschweg 2, 76275 Ettlingen).

13.4 Warning notices

Listening to loud music can cause hearing-impairment!

The above described device may never be used for health- or life saving purposes!.

The above described device may also not be used, if through its use, damage could be caused for humans, animales or material assets!

14 Contact

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