:hager

(GB)





3LE000730B

RE..410X AUDIO module built-in 2wire RE..310X

Safety instructions

Electrical equipment may only be installed and

assembled by a qualified electrician in accord-

ance with the relevant installation standards.

guidelines, regulations, directives, safety and

accident prevention regulations of the country.

When installing and laying cables, always com-

ply with the applicable regulations and stand-

These instructions are an integral component

Design and layout of the device

of the product and must be retained by the end

ards for SELV electrical circuits.

user.

(2

(3)-

AUDIO insert replacement builtin 2wire

-(5)

Figure 2: Design and layout audio module with

Figure 3: Design and layout audio insert device front

- (1) Microphone
- (2) Speaker
- (3) Twilight sensor
- Cover plates stainless steel (4)
- (5) Module carrier (according to reference)



Figure 4: Design and layout audio modules and audio-insert back-side

- Adjustment button Upwards (6)
- (7) 7-segment display
- (8) Selection button **O**
- (9) Adjustment button downwards **V**
- (10) Module bus connector
- (11) Connection terminal block

Function

The device works in the 2-wire bus system and enables communication via sound.

Correct use

- for surface-mounted, flush-mounted or built-in installation
- Not compatible with intercom systems of other manufacturers
- suitable for use exterior applications

Figure 1: Design and layout audio module device front



Product characteristics

- expandable for modules, e.g. call push-button - Call push-button acknowledge tone (can be
- switched off) - call button, light release or door release can be adjusted even without any function
- Switch-on brightness level of the call button backlighting adjustable
- Loudspeaker and microphone protected against sabotage
- Volume and microphone sensitivity settable - Door release contact on 1 ... 10 s adjustable
- Door release without previous call adjustable in single door systems

Operation of call push-buttons

Call push-button modules are connected to the device.

Establish call (ringing)

- Press the call push-button assigned to the desired subscriber.
- If configured, the call push-button activation is confirmed by an acknowledge tone. Addressed indoor stations are called.

Switch-on lights

A call push-button is configured and labelled for lighting control

- Press the call push-button for lighting.
- If configured, the call push-button activation is confirmed by an acknowledge tone. The light contact of a line power supply is closed for the set time.

Label call push-button

- Keep call push-button pressed on one side. On the opposite side, the lever opening (12) is accessible for a screwdriver
- Position the screwdriver in the lever opening (12) and release the interlock (Figure 5).
- Remove cover with name plate insert.



Figure 5: Name plate change

(12) Lever opening

- Label name plate insert if required.
- Insert name plate insert, prepared foil or prepared labelling strip into the cover.
- Press on cover.
- **D** Do not use any paper for the name plate insert, since moisture and UV light will damage the paper and labelling.
- UV-resistant foil with laser printing is suitable for labelling as well as labelling devices for labelling strip:
- small buttons 12 mm
- medium buttons 30 mm
- Detailed labelling references are to be found on our homepage

Door stations with status indication



Information for electricians

Installation and electrical connection



Touching live parts in the installation environment can result in an electric shock!

An electric shock can be lethal! Before working on the device or load, disconnect all associated circuit breakers. Cover all live parts in the area!

When installing door communication systems, comply with the general safety regulations for telecommunications systems according to VDE 0800:

- Separate routing of power and door communication cables with a minimum spacing of 10 cm
- Partitions between power and door communication cables in shared trunkings
- Use of standard telecommunications' cables, e.g. J-Y (St) Y with 0.8 mm diameter

Bus cables

- J-Y(ST)Y or A-2Y(L)2Y
- Use wrapped wire pair. Recommendation: white/yellow
- CAT Use wrapped wire pair.

Recommendation: orange/white Avoid interference!

- The 13-MHz video carrier frequency used for two-wire video door communication systems can cause reciprocal interference with other devices, such as radios, routers and WLAN devices
- Only use shielded cables corresponding to the qualities recommended in this manual.
- It is essential to comply with the applicable regulations during planning and installation.
- · Route cables, wire the devices, and in particular implement shielding and earthing measures as described below.

Installing the device

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- An installation height of approx. 1.5 m (middle
- of the loudspeaker) is recommended for persons of average size.
- Installation of the device depends upon the
- respective product it is going to be installed in (see already available installation instruction, e.g. door station, frame, etc.).

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Connect device

supply).

device

block (Figure 6).

against manipulation.

(Figure 6... 8).

if required.

or:

- Attach connector of the module connection cable to the next call push-button module on the device
- Attach connection terminal block to the device.
- Engage and screw in the module e.g. in the rear latching receptacle of a door station (see corresponding mounting instructions).
- Close station

Circuit symbols and elements of the circuit diagrams



X





The connection cables and indoor stations are connected to the line power supply while taking the maximum cable lengths and attenuations into account (see operating instructions of the line power

 Bring pre-assembled station (door station, frame, etc.) in installation position - if necessary with safety rope and tools.

• Shorten connection cable of the device as required and strip the required wires.

• Pull off connection terminal block (11) from the

• Connect the wire pair of the 2-wire bus cable to the terminals **XX** of the connection terminal

• Connect door release cable to the terminals TT of the connection terminal block (figure 6 and 7)

• For manipulation-protected installation, connect the door release to the contact **the line** power supply (Figure 8).

The door release lead must not be inserted through the door station in order to protect

 For call push-button backlighting connect 12 V~ lead from the power transformer to the terminals ~~ of the connection terminal block



Figure 6: Wired connection terminal block





Figure 8: connection of device with manipulation protected door release

If interference occurs in telecommunications systems, radio services or other systems during the operation of existing video door communication systems, measures for shielding and earthing the cables and for filtering must be implemented.

- For this purpose, connect all of the drain wires of the cables in a star shape using a terminal.
- Connect all drain wires to the PE rail in the distribution box.



¹⁾ Door release functions without door call only possible single door systems ²⁾ OC "one call", software version 2.0 or higher

Figure 9: Overview of system settings

Calling up and navigating system settings

On the back of the device, there are 3 buttons and a 2-digit 7-segment display (Figure 4, 6-9) for the system settings, 9).

- Press ▼ / ▲ button.
 - Device turns to setting mode. The first menu entry is displayed.
 - The reading directions of the 7-segment display varies by 180° depending on which button ∇ / **A** you start with.
 - (figure 9).
 - Confirm the selection with **O**.
 - The 7 segments display goes dark if there is no actuation for 5 seconds. Settings are applied. The device returns to normal operation.

Setting the values

The menu entry to be set is confirmed and flashes alternately with the value to be set.

Press **V** / **A** button. Short button-press: change the value by one

Long button-press: run through values. Scroll-

ing stops when the button is released. Confirm set value with O

The device applies the setting and returns to the previous menu entry.

Address call push-button automatically

The call push-button and connector on the back are addressed by the automatic call push-button addressing as follows. The addressing, e.g. with two-rowed door stations, takes place starting from the top downwards, and with a two-rowed door station, counterclockwise automatically upwards to the right (figure 10).

The menu entry RR is confirmed. RR flashes alternately with the entry 2 for cancel.

- With ∇ / Δ select the entry \blacksquare for automatic addressing.
- Confirm with O.

During the addressing, the display flickers. Afterwards the display returns to the previous menu entry



Figure 10: Module address and automatic call push-button addressing

Set individual call push-button address/function The menu entry R Set individual call push-button address/function is confirmed and flashes.

- Confirm the call push-button to be set. The menu entry **R** flashes alternately with the current address/function.
- With ▼ / ▲ select the required address □□ **FF** or function **LL** for light push-button, **LL** for door release push-button or - for no function.

 Confirm set address/function with O. The device applies the setting and returns to the previous menu entry. Rb.

Display saved error codes E

Device errors of the call push-button module that occur during operation are stored in the the error memory of the device for diagnosis

• Select menu entry **E** with button ∇ / Δ and confirm with **O** If no error code exists = is displayed for 2 seconds and afterwards E

If error codes are saved E flashes followed by the module address and the error code.

- Press button ∇ / Δ , to call up further error codes if necessary.
- Press button **O** to return to menu entry **E[**.

| Error code | Error cause | Counter actions |
|---------------|--|--|
| E.E | Communication error between device and call push-button mod- ule. Once the error has occurred 3 times, the system is reset auto- matically and the error code is generated. | If the error per- sists, the call push-button module must be replaced. |
| 12 | sticking call button | Check call push-button module If there is a defect, re- place and ad- dress. |
| | Writing of the call push-button address in the call push-button module fails. | If the error per- sists, the call push-button module must be replaced and re-addressed. |

The memory should only be deleted once 5 error codes have been stored, so that new error codes can be saved

Identical error codes are only saved once.

Multiple call/one call

Multiple call, value d (factory setting): Each key press on the outdoor station starts a call. These calls can be answered one after the other

One call, value **III** : Pressing a button on the outdoor station starts a call. Each additional key press ends the previous call and connects the new call. Only one call can be present in the system at any time.

For installations using RTQ52xx, TJA510N, TJA470 or multiple door stations, multiple call II must be used.

Dismantle call push-button module cover

For cleaning or replacement, the call push-button module cover can be dismantled from the front.

• Lever up the interlocking cover strips (13) at the top and bottom using the screwdriver and remove (Figure 11).



(13) Cover stripes

• Lift the call push-button module upper part in the bottom lever opening slightly with the screwdriver and guide it forwards (12).







ers with the same number of push-buttons.

the new module in reverse order.

Exchange module/insert

- Pull off connection terminal block (11) on the device
- · Remove the connection cables' connectors on the module to be exchanged.
- Remove screws/nuts from mechanic module mountings and remove module mounting (see already available installation instruction, e.g. door station, frame, etc.)
- To remove the call push-button module, unlatch the side retaining brackets (15) of the module er (Figure 13).



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Figure 13: Unlatching module

(15) Retaining brackets module mounting

(15)

- Remove the module to be replaced and install the new module in reverse order.
- **D** Re-addressing of the device is required to oper-ate the door station.

Figure 11: Removing the cover strips

Figure 12: Dismantling the call push-button module

• Remove the module to be replaced and install

Door station is open and activated.

mounting by carefully lifting up with a screwdriv-

The module detaches itself from the anchoring.

Appendix

Technical data

Operating voltage 22 ... 24 V= Current consumption audio Stand by 5 mA Current consumption audio device operation 110 mA Current name plate lighting per call push-button module 45 mA

| Menu setting | Backlighting On | Backlighting Off | |
|-----------------|-----------------|------------------|--|
| 0 | Permanent Off | | |
| 1 | ≈ 750 lx | ≈ 1600 lx | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | ≈ 60 lx | ≈ 110 lx | |
| 10 | Permanent On | | |
| | | | |

Table 3: Brightness of LED backlighting