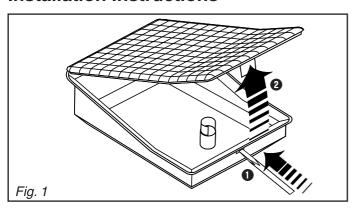
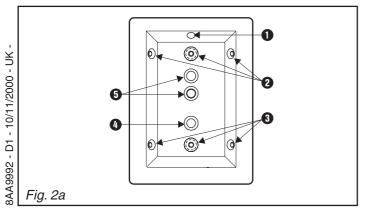
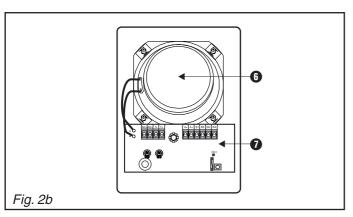
# **SIEMENS**

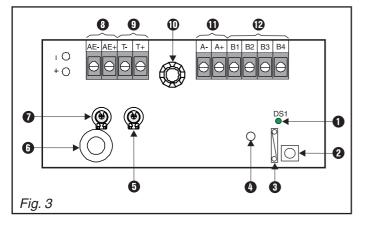
# **WAC 12**

# Installation Instructions









## 1. Product description

The WAC 12 is used to verify audio alarms. It is fitted with a speaker and microphone. It can be controlled through the E-Bus, with the audio signal connected to the central control unit via an audio module (e.g. WMA 11). The WAC 12 also serves as a master for the unaddressable WAC 11 and WAS 11.

# 2. Supply package

The WAC 12 UK package contains the following

- One WAC 12
- One WLC 12 UK language kit complete with:
  - Installation instructions.

## 3. Mounting instructions

The WAC 12 is designed for mounting in dry indoor rooms. To ensure good acoustics, note the following points.

- Mount 2 to 2.5 m above floor level.
- Maintain adequate distance from noise sources (ventilation openings, fans etc.).
- Direct towards the centre of the space to be monitored.
- Do not mount on vibrating surfaces.
- The maximum length of the audio connection between the WAC 12 and central control unit is 200 m.

## 3.1 Opening the housing (Fig.1)

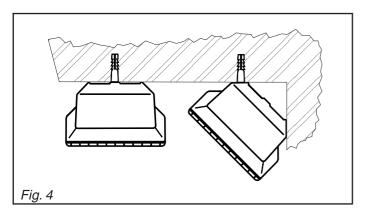
- 1 Using screwdriver 1, press locking tab to release.
- 2 Lift off cover 2.

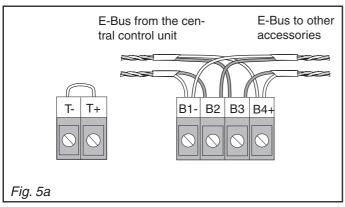
## 3.2 Product overview (Fig. 2)

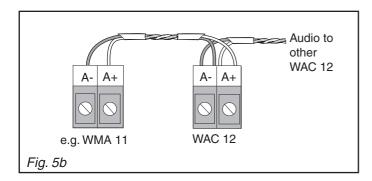
- Knockouts 1, 5 for cable inlet.
- Knockouts **2**, **3** for attachment of housing.
- Knockout 4 back tamper contact.
- Speaker 6.
- WMC 12 circuit board 1

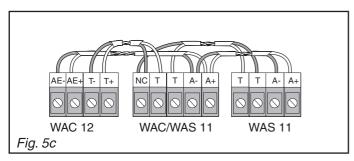
### 3.3 WMC 12 circuit board (Fig. 3)

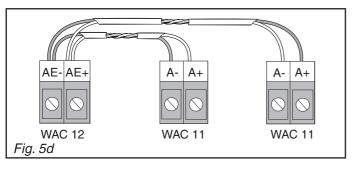
- E-Bus connection (2).
- Audio connection **1** to central control unit.
- Audio connection 3 to WAC 11 or WAS 11.
- Tamper input 9 for WAC 11 or WAS 11.
- LED 1, flashes when E-Bus is o.k.
- LED 4, flashes to outside during monitoring (microphone active).
- Address button 2.
- Switch 3 for "microphone active" LED.
- Tamper switch 10.
- Microphone 6
- Potentiometer for speaker volume.Potentiometer for microphone sensitivity.











## 3.4 Mounting (Fig. 4)

- The housing can be mounted flat or at 45°.
- Always use two attaching points which are one above the other, including for corner mounting.

# 4. Wiring

## 4.1 E-Bus (Fig. 5a)

The use of type 24 AWG 7x0,2 mm dia. cable is recommended. The E-Bus cable shall not be more than 500 m long. The WAC 12 must be connected to the central control unit via the E-Bus (B1-, B2, B3, B4+). It can be routed parallel to other accessories.

## 4.2 Tamper (Fig. 5a)

The tamper inputs T- and T+ must be short-circuited if not wired to a WAC 11 or WAS 11.

## 4.3 Audio (Fig. 5b)

To avoid side-tone, a twisted core pair at least 0.6 mm in dia. must be used. The audio connection to the central control unit must not be more than 200 m long. The audio output depends on the cable length and core cross-section. The audio connection (A- and A+) of the WAC 12 must be connected to the audio input (A- and A+) of the central control unit (e.g. WMA 11).

#### 4.3.1. WAC 11 and WAS 11 (Fig. 5c)

The audio outputs (A- and A+) of the WAC 11 and WAS 11 are connected to the audio inputs (AE- and AE+) of the WAC 12. The tamper outputs (T,T) of the WAC 11 and WAS 11 are connected in series to the tamper inputs (T- and T+) of the WAC 12.

in series to the tamper inputs (T- and T+) of the WAC 12. Where several WAC 11 are used, all WAC 11 must be connected directly to the WAC 12 to obtain optimum performance (Fig. 5d).

## 5. Start-up

### 5.1 Microphone sensitivity

The sensitivity of the microphone must be matched to the room and ambient noises (potentiometer **7**, Fig. 3).

Where sensitivity is reduced, the reception of quiet signals naturally reduces. The following ranges are normally obtained.

- Approx. 3.5 m with potentiometer on min.
- Approx. 6.5 m with potentiometer on mid position.
- Approx. 8.5 m with potentiometer on max.

#### 5.2 Speaker

Set the required volume using potentiometer (6, Fig. 3).

## 5.3 LED "microphone active"

- Switch (3, Fig. 3) open: LED active.
- Switch (3, Fig. 3) closed: LED inactive.

#### 6. Close housing

- Engage cover at the top in the openings in the base of the housing.
- 2 Close the cover by pushing downwards until the locking tab engages.

#### 7. Technical data

Supply
Power consumption, quiescent state
Power consumption, "challenge" state
Operating temperature
Housing material
Dimension in mm
ABS
Dimension in mm
H 145 x B 105 x T 70
Safety class
Weight
Through E-Bus
5 mA
24 mA
-10°C to +55°C
H 145 x B 105 x T 70
Safety class
IP 30
230g