

USER MANUAL (V1.0)

AAE 808 –AAE 840DCF Paging/Control Console AVEC g2 Voice Evacuation/Public Address System



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1. CONTENTS OF DELIVERY



The delivery of Audico AAE 808 - AAE 840DCF Paging/Control Console contains:

- Paging/Control Console equipped with needed modules
- Windscreen for the microphone capsule
- 2 pcs. RJ-45 connecting Cable 2,5 m
- Removable 3-pin terminal block connector
- Printed copy of User Manual and User Guide
- Terms of warranty and the warranty form

Only for Fireman's model (AAE 808F, AAE808DCF, etc.):

- Handheld microphone with cable and XLR connector.

2. GENERAL



AAE 808 ... AAE 840DCF Paging/Control Consoles are a member of digital AUDICO AVEC g2 Voice alarm and PA sound system.

They are intended to use as a normal paging unit in a traditional PA-system as well as a monitored Voice Evacuation Paging and Control panel for building safety and protection system. Consoles can be connected to previous AVEC-systems by upgrading the system software.

The most important target for the developing work has been except modern Scandinavian design also efficient production method with modular construction. Updated European standard demands for voice evacuation has been taken in account as well.

- Modern Scandinavian design
- Versatile model alternatives
- Monitored gooseneck or hand-held microphone
- Guiding LCD display (option)
- Menu based user interface (option)
- Program source and volume control through menu (option)
- 8 -40 programmable function keys (up to 120 pcs. as a tailored model)
- Input connector for external program source eg. iPod, laptop etc.
- Speaker mute output (or fault output as an alternative function)
- EN54-16 compatible evacuation functions
- Up to 32 pcs. Consoles to System and 8pcs. to each Local Bus
- 2 data bus outputs for redundant systems
- Connection to Local or System bus with TIA/EIA-568 cabling (CAT5/6)

3. MODELS



AAE 808



AAE 808DC



AAE 824



AAE 824DC



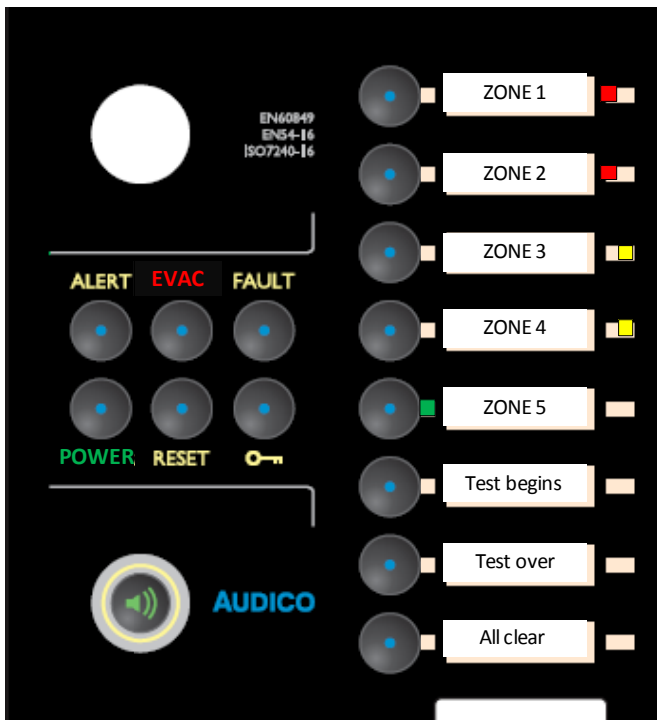
AAE 840



AAE 840DC

4. FRONT PANEL

4.1. Main control panel



PAGE –button

PAGE to chosen zones can be activated and de-activated with this button.



ALERT –button and indication

Defined prerecorded ALERT -message can be activated to chosen zones with this button in access level 2.



EVAC –button and indication

Defined prerecorded ALERT-message can be activated to chosen zones with this button in access level 2.



POWER –button and indication.

Stand-By/On button for the system.
Configured by system administrator.



RESET- button and indication

Resets zone preselection

Resets ALERT or EVAC –state in access level 2



FAULT –button and indication

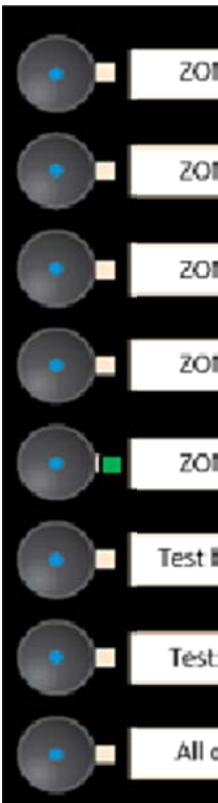
General FAULT- indication is blinking, if any fault has been detected in the system

FAULT –button is used with PAGE –button for indication test activation



KEY –button and indication

Access level 2 is reached by pressing this button and entering password. Password is a combination of four FUNCTION –button (4 digit password). Password is defined by system administer using PC.



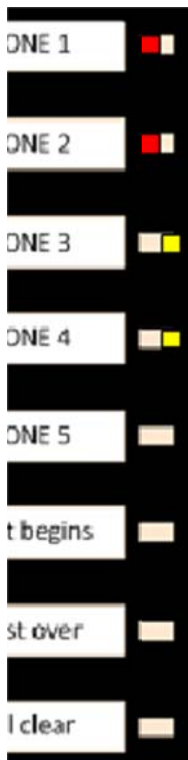
8 pcs. FUNCTION –buttons and SELECTED –indication (green)

Freely configurable buttons.

functions are:

- Alarm zone selection
- Message, single
- Message, continuous
- Aux audio paging
- Control output, toggle
- Control output, pulse
- Preset call
- Call-off control

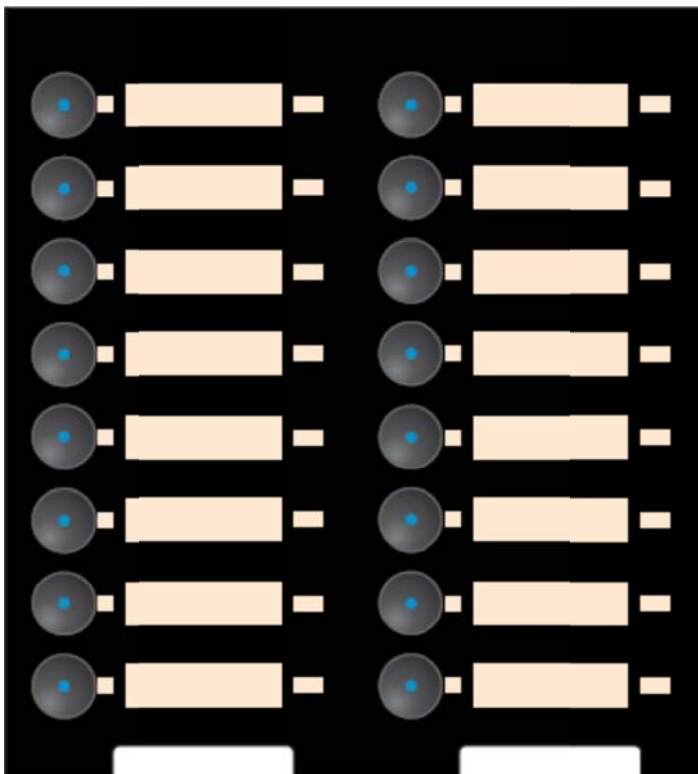
Configured by system administer



Alarm zone status indication for each defined Alarm zones, 8 pcs.

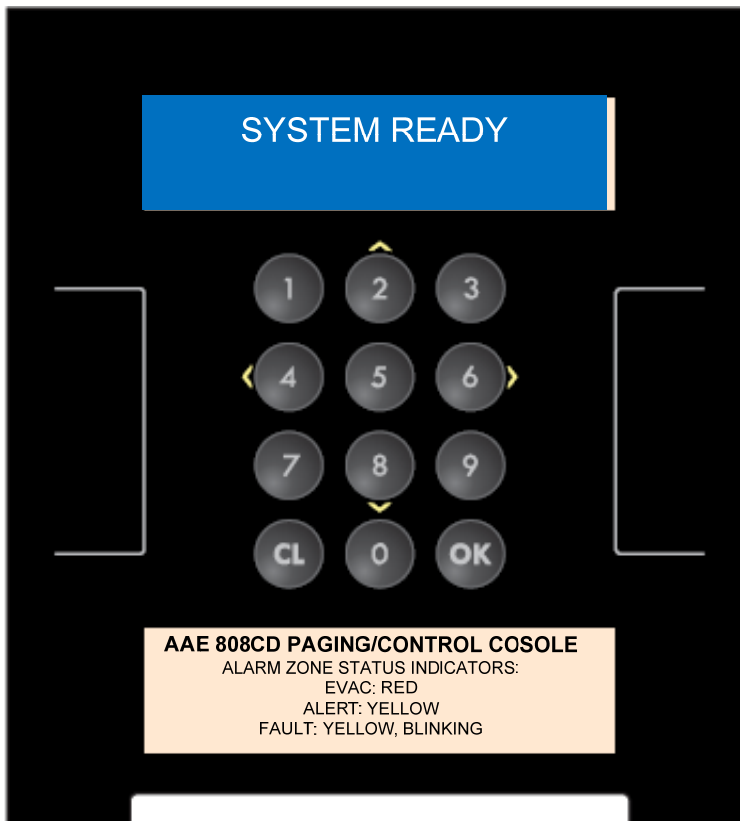
- Red, constant EVACUATION
- Yellow, constant ALERT
- Yellow, blinking FAULT

4.2. Extension module



Each extension module has 16 programmable FUNCTION –buttons, SELECTED –indicators and Alarm zone status indicators. All functions are the same as Main Module’s Function buttons.

4.3. Display and Control module

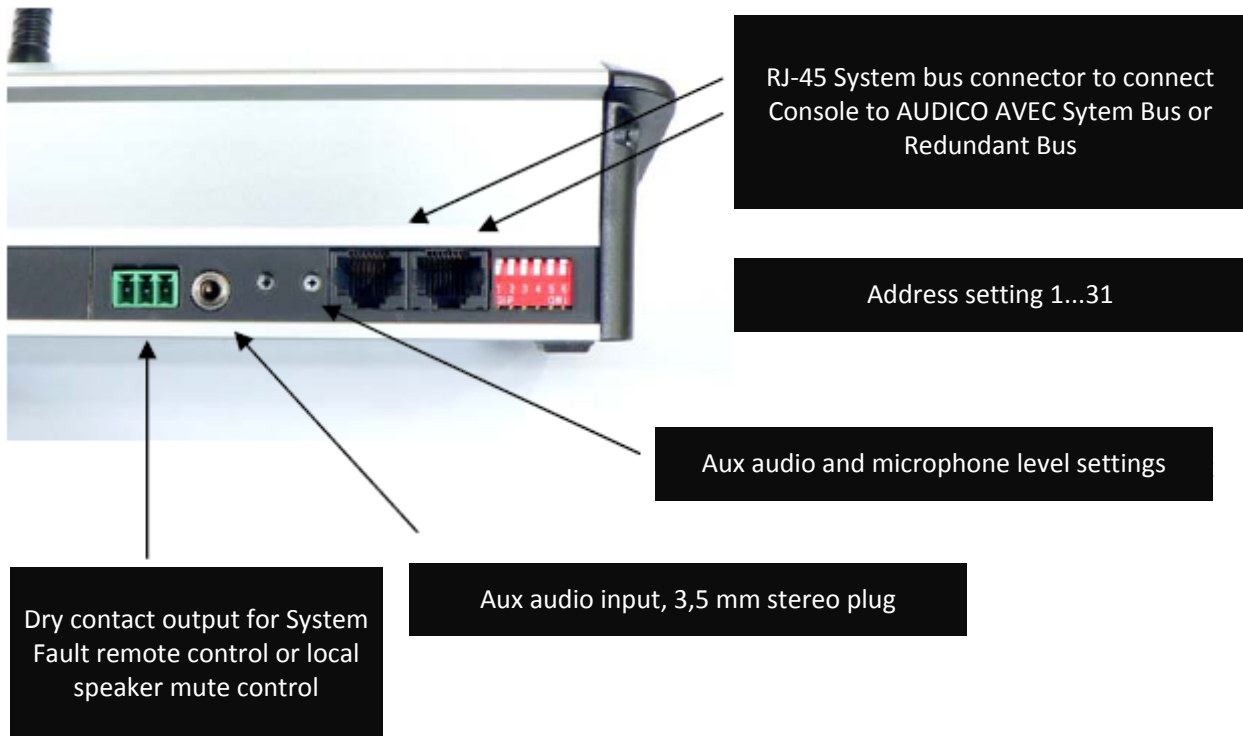


All Console models marked with AAE 8XX**DC** are equipped with Display and Control Module. Module is equipped with keypad with integrated control menu buttons and 2x16 characters display.

It is used to extend console functions to have versatile system control and management features. Control menu includes controls available in access level 1 and system management features in access level 2. Available controls are as follows:

- Program group selection (a freely programmed group of speakers lines)
- Audio input activation to every defined program group
- Volume level control of each defined program group
- Password access for fault log
- Fault log browsing, fault clearing
- System software version info

5. REAR PANEL



Type plate on the bottom of the console

AUDICO AVEC

TYPE: AAE

Paging and Control Console

SN: **CE RoHS**

CTRL OUTPUT **AUX IN** **VOLUME AUX OUT** **MAIN-BUS** **SPARE-BUS**

NC COM NO

ADDRESS

1	☐	☐	☐	☐
2	☐	☐	☐	☐
3	☐	☐	☐	☐
4	☐	☐	☐	☐
5	☐	☐	☐	☐
6	☐	☐	☐	☐
...	☐	☐	☐	☐
32	☐	☐	☐	☐

MODE

g1 ☐ g2 ☐

DIP **ON** ☐

6. CONFIGURATION

System configuration can be done with PC using AVEC Configuration software in access level 3. Only system manager (skilled and trained person) is allowed to do modifications to the system.

Parameters to be defined for consoles are:

- Name of the console
- Address 1...31
- Priority 1...16
- Chime Selection from messages available
- Model combination
- Bus System Bus/Local Bus (redundancy)
- "POWER" button Allowed yes/no
- "PAGING" button Push-Button/Toggle
- Monitoring Fault monitoring on/off

- "ALERT" button
 - o alert message definition to be triggered during activation, fire bells control sequence definition

- "EVAC" button
 - o evac message definition to be triggered during activation, fire bells control sequence definition

- Function buttons
 - o Alarm zone selection
 - o Message, single
 - o Message, continuous
 - o Aux audio paging
 - o Control output, toggle
 - o Control output, pulse
 - o Preset call
 - o Call-off control

7. SETUP

7.1. Cabling and Connection

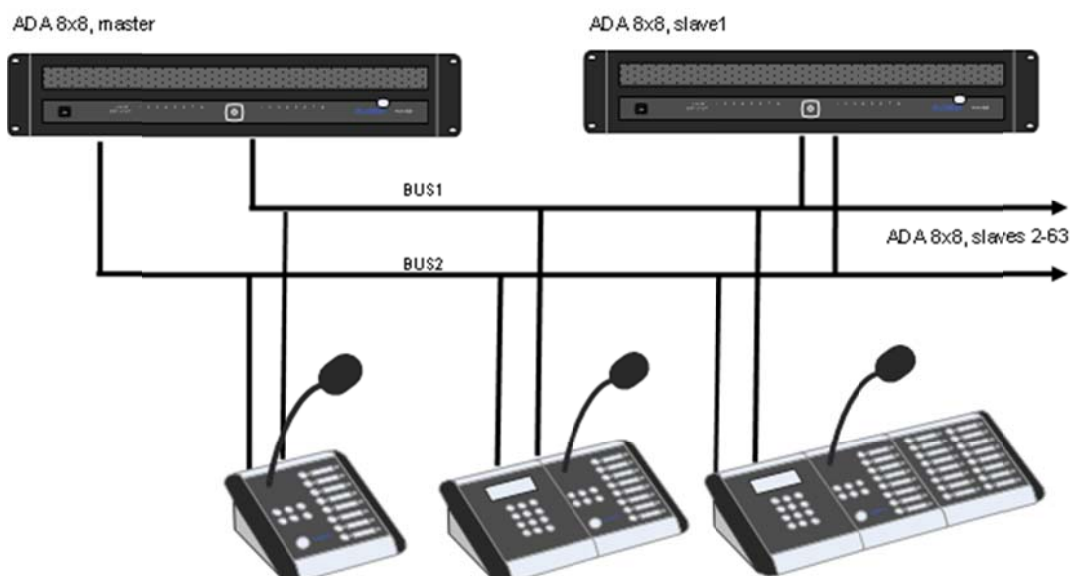
Consoles can be connected to system using CAT5, CAT6 or CAT7 category cabling. Dedicated network is recommended, but building general data cabling can be used also. Note! be sure not to use cables in use for Ethernet or Intranet.

Network structure for AVEC System Bus is bus-cabling from device to device, but star-cabling structure works in normal case very well, unless cable total length does not exceed 1200m.

In normal installation System Bus feeds all needed power voltages to the unit; no external Power Supply is needed. Anyhow, if many units with remarkably long cables are to be used, voltage drop measured from the end of the cable should be noticed and examined.

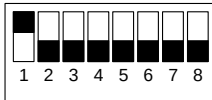
1	2	3	4	5	6	7	8
							
1	Audio +		P2				
2	Audio -		P2				
3	Audio GND		P3				
4	Digital GND		P1				
5	Digital +12VDC		P1				
6	Audio +24VDC		P3				
7	Data (A)		P4				
8	Data (B)		P4				

Unit can be equipped with redundancy network to have the highest security against possible cable faults; that is used in for remote consoles done according to EN54-16 standard.



7.2. Address setting

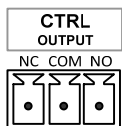
Each Console has its own binary addresses. Address must be set before power-up with the DIL-switch in rear panel.



DIL-switch at ON position

ADDRESS	1	2	3	4	5	6	7
1	X						
2		X					
3	X	X					
4			X				
5	X		X				
6		X	X				
7	X	X	X				
8				X			
9	X			X			
10		X		X			
11	X	X		X			
12			X	X			
13	X		X	X			
14		X	X	X			
15	X	X	X	X			
16					X		
29	X		X	X	X		
30		X	X	X	X		
31	X	X	X	X	X		

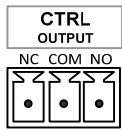
7.3. CNTR Output



Console is equipped with relay dry contact output control. It can be used for:

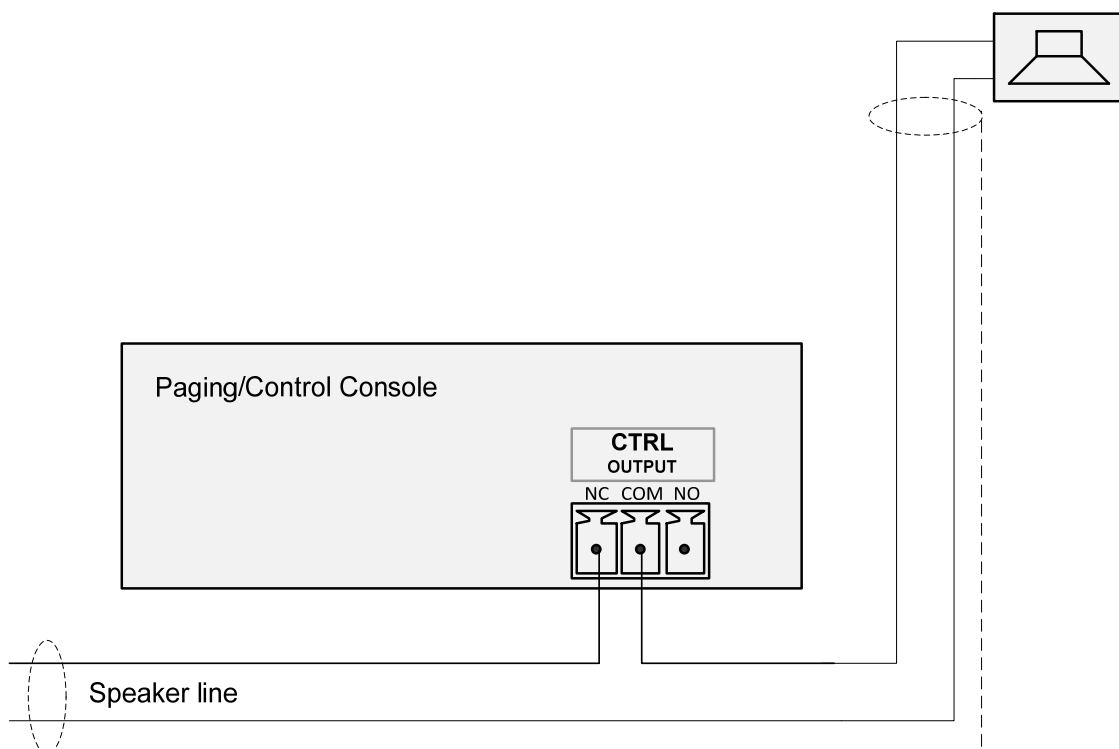
- General system monitoring control. In monitored system Console supervises master ADA 8x8 g2 System Unit. If it recognizes a fault in the unit or in the transmission path to console, it gives general "System Fault" indication to the console's display and activates the

relay control. Control is to be used in VAC, monitoring room etc. to indicate “fatal error”, of the system.



Control is recommended to connect between NC and COM to supervise the control cable itself.

- Local speaker muting control. Speaker(s) near the Paging/Control Console are muted during paging to prevent the acoustical feedback from speaker to the microphone.



8. TECHNICAL SPECIFICATIONS

Compliance with following standards:

- Frequency response (-3 dB)
- THD+N 1 kHz
- Connectors type
 - o System Bus
 - o Redundant Bus
 - o Aux audio
 - o Ext. control
- Operation temperature
- Operation humidity

CE

EN 60849:1998

EN 54-16:2008

ISO7240-16:2007

EN 60945:2002

200- 17 000 Hz (mic)

50 -17 000 Hz (aux)

< 0,1 %

RJ-45

RJ-45

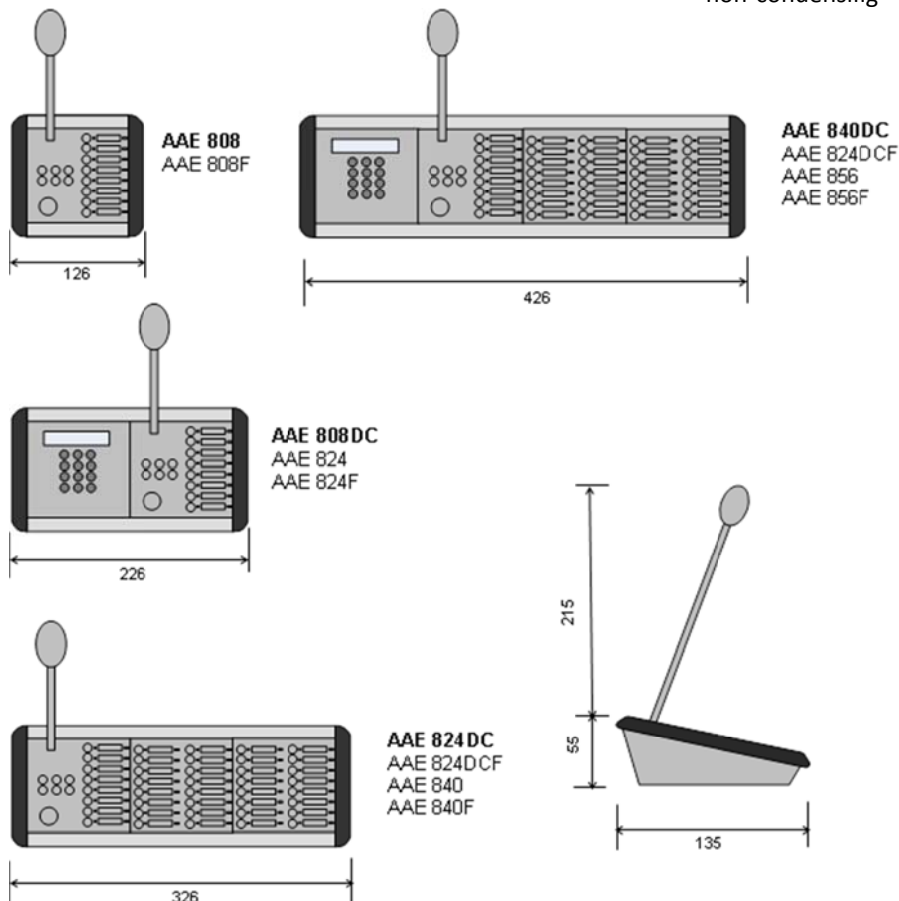
3.5 mm stereo plug

3pin removable screw terminal, 0,75 mm² wire

-15 ...+50 °C

20 ...90% RH

non-condensing



Consoles can be flush mounted

Model	Sizes	Flush mounting hole size	Weight
AAE 808	135 mm x 126 mm	128 mm x 113 mm	0,5 kg
AAE 808DC	135 mm x 226 mm	128 mm x 213 mm	0,8 kg
AAE 824DC	135 mm x 326 mm	128 mm x 313 mm	1,2 kg
AAE 840DC	135 mm x 426 mm	128 mm x 413 mm	1,6 kg