

# CFVADAU

## VoCALL voice distributed amplifier unit (DAU)



The VoCALL Voice series of voice alarm systems are designed for the majority of fixed installations and are available in several forms.

The VoCALL voice distributed amplifier unit (DAU) is a complete VA system, which has been developed to replace talking sounders in many voice alarm applications.

It is supplied in a single wall mount box which is complete with messages, fire interface, single or dual 50W monitored amplifiers, power supply, monitored battery charger and the ability to connect non monitored paging and music sources directly.

The boxes can be connected together using the network ports so a system with up-to 128 nodes is available and paged from the all call CFVAEMA fire microphones or the CFVAMZ multi-zone panels.

### Features and benefits

- Can function as a stand alone or networked system
- EN54-16 and EN54-4 LPCB certified for CPR
- BS5839 part 8, 2008 compliant
- Single or dual 50W 100V line outputs
- 3 Messages (65 Seconds) or 130 second with new module
- Dual VoCALL voice network ports
- Eaton loop addressable option
- Opto isolated fire interface (with reset) for any fire panel
- Wall mounted
- Common fault out
- Paging input
- Operates on CWZ fire cables
- Full fault monitoring
- EN54-4 battery charging and monitoring
- Direct music input
- Music ramping

## Technical Specification

Code	CFVADAU
Description	Voice distributed amplifier unit (DAU)
Standards	EN54-16 and EN54-4 LPCB certified
<b>Power supply and charger</b>	
AC input	230Va.c +/- 10% 50/60 Hz
Internal power supply	276V dc
Supply & battery	monitored
Protection	Deep discharge, Short, Terminal
Temperature compensation	Yes
Battery size and type	2 x 12V 5AHr
Mains fuse	240V 2A HRC
Battery fuse	6.3AF 20mm
Max charge current	1.1A
<b>Inputs</b>	
Ports	2 (in and out)
Cables	Each leg is 4 off 2 core cables
<b>Background music</b>	
Sensitivity	-6dBV to + 2dBV
Level range	30dB
<b>Page</b>	
Sensitivity	-6dBV to + 4dBV
Ptt type	0V to access
Power	+24 nominal
<b>Speaker circuits</b>	
Circuits	1 or 2 off 50W RMS each
Level	100V RMS (+40dBV)
Bandwidth	80 Hz to 18 KHz (-3dB full power)
Distortion	0.05% 50W 276V 5% 50W 22V
Monitoring	DC end of line (9k expected)
Capacitor	Typically 2.2 uF 250V DC
Fault indication	Open, Short, Earth
Protection	Short, open, thermal, DC offset
<b>Fire interface</b>	
Analogue addressable	Eaton loop interface with short circuit isolation and auto addressing
Compatible inputs	3 off isolated + 12V to +33V
Outputs	1 Relay (open on fault)

The VoCALL Voice DAU draws the minimum of current in standby conditions, muting the music when the AC supply fails, enabling the unit to draw a minuscule 60mA quiescent current, enabling the use of 5AH commodity SLA batteries for compliance with BS5839 pt8.

Connection to a fire alarm system could not be simpler; the DAU appears as an addressable device on Eaton's analogue addressable panels or for compatibility with other fire alarm CIE. It has independent Alert and Evacuate inputs, which can be directly connected to reverse monitored sounder circuits. Once activated the fire alarm signals need to be de-latched by the reset input.

The speaker lines are monitored using a low current DC system, which is continuous and works with the music playing. Faults reported are open, short and earth faults. Each speaker fitted to the DAU must have a DC blocking capacitor fitted. The use of DC monitoring allows all cable types (MICC and soft skin) to be used with the system as well as multiple spurs. Music sources can be plugged directly into the DAU and the level of this can be set using the front panel menu. When used with a paging microphone, the music "ducks" and restores gently after paging.

### Cables

Cables between the fire panel, emergency microphone (CFVAEMA) and speakers must be fire rated for standards compliance.

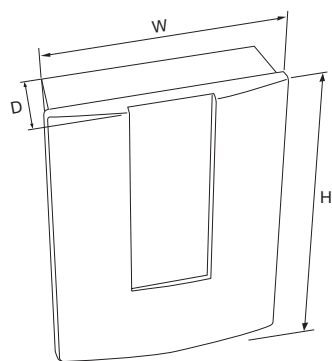
The system is designed to run with CWZ rated SPEAKER cables including Mineral Insulated types, for maximum run lengths consult the chart in the instructions.

Each speaker circuit can have up to two spurs as shown above for maximum flexibility.

### Messages

All messages are Windows™ WAV files and are uploaded to the onboard Flash memory using a specially developed PC application and a serial port (including USB types). The unit holds three messages, with a combined playing time of over 65(130) seconds.

## Dimensions



Description	H (mm)	W (mm)	D (mm)
Voice DAU panel	400	320	180

## Catalogue numbers

Description	Code
50W single channel addressable DAU	CFVADAU50
2 x 50W dual addressable DAU	CFVADAU100

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