LICE IN LE

Small loads are a perfect match for

the 4E-SW6 REMOTE CONTROLLED

ZONE EXPANDER module. A simple

way to distribute various loads over

a multiple of 6-speaker lines / zones.

No rack build, No engineering!

The IMPACT concept is simple yet powerful: to provide more coverage, with a higher number of zones produced either from just one amplifier or only a few amplifiers.

When combined with 4EVAC's DCA-2.500, or other single high-power twochannel amplifier, the 4E-SW6 switching module generates simultaneous EVAC and ALERT announcements or paging messages and background music (BGM) into six switched speaker lines. By adding more 4E-SW6 switching modules it is possible to produce any multiple of six speaker lines.

More zones. Fewer amplifiers!

Powered by a single DCA-2.500 two channel amplifier, the 4E-SW6 switching module provides simultaneous, uninterrupted paging and BMG for six manageable speaker lines. A third internal channel is used by the surveillance tone generator to continuously check the

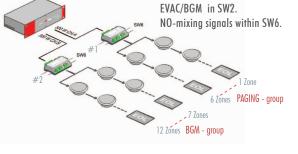
integrity of the cable and detects any faults. The third internal channel can also be addressed if the speaker lines need to

line. This is received by a simple, cost effective end-of-line module (EOL), creating a cable monitoring system that checks for short- and open-line faults.

The 4E-SW6 switching module is easy to field cabling up to 2.5 mm²/12 AWG.



Using two amplifier channels of the DCA 2.500 amplifier the 4E-SW6 switching module provides simultaneously paging in SW6 #1 and background music in SW6#2



Using two amplifier channels of the DCA 2.500 amplifier, the 4E-SW6 switching module provides simultaneously paging and BGM in each 4E-SW6 with the limitation of 500 W for the whole system.

with 500 W per 4E-SW6 switching unit.

The cable integrity detection process works by the 4E-SW6 generating a separate AC carrier for each individual

install. It comes in a quick-snap DIN- rail housing and is supplied with speaker line connectors that directly accept external

Each speaker line is able to support loads from as small as 1W to as big as 200 W. This 'dynamic-load-distribution' makes IMPACT the most flexible and versatile VACIE system in the industry and optimises the use of all modules on the



DCA 2.500 amplifier



The **CONTROLLER** deals with inputs according to their own signal priority table, distributing the audio using the digital AMP-link module, which handles two prioritised streams through a dynamic assignment technique, to a maximum of 32 DCA-2.500 amplifiers.

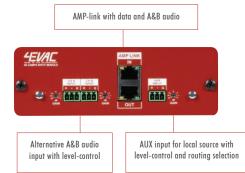
The 4E-SW6 remote controlled zone expanders units, housed remotely in the easy-wire racks, work directly to the CONTROLLER. This set-up routes audio from the A and B channels of the amplifier into the required speaker lines and zone or zones.

The CONTROLLER manages two simultaneous audio streams over an expandable switching matrix. This facilitates expanding from a minimum of 6 speaker lines to a maximum of over 1500 speaker lines, which can be grouped into a maximum of 255 virtual paging zones.

The CONTROLLER provides all mandatory indicators according to the EN54-16 standard and provides GPI and GPO interfacing, global and local network ports, TCP-IP ports and an AMP-link that interfaces with the DCA-2.500 amplifiers over a dedicated RS485 bus for audio and data control.

Offering 'dynamic-load-distribution' over the speaker lines from 1 Watt to 200 W, one CONTROLLER can manage up to 32 x DCA-2.500 amplifiers with a combined output power of up to 32,000 W.

The CONTROLLER uses the same 4EVAC Manager as the COMPACT500, making the interaction between the two systems straightforward and enabling them to be easily combined into one system.



DCA 2.500 / D-Class Charger Amplifier

CERTIFICATION: EN54-16:2008

The **CONTROLLER** integrates

COMPACT500 box-on-the-wall

VACIE system, which offers

maximum versatility and

neets today's challenging

market demands

with

The DCA-2.500 D-Class amplifier provides powerful audio amplification certified to EN54-16 and EN54-4. It delivers 2 x 500 W outputs and is housed in a 2U 19-inch rackhousing. Up to three DCA-2.500 amplifiers can be stacked together sharing a single battery pack, providing back-up power and recharging capabilities.

The amplifier has been designed along 'modern-art' lines and features a transformer-less design with 100 V outputs for distributed loudspeaker systems. With cutting edge design the DCA amplifier sets a standard for the most demanding projects.

The DCA-2.500 boasts a dual voltage mains supply combined with a secondary 24 VDC battery backup, crucial for ultimate reliability and durability in a VACIE system.

A Master/Slave system architecture, dictated by the AMP-LINK, regulates the battery charging procedure and status

The AMP-LINK module offers a local analogue AUX entry for local music playback into channel A and/or B. This allows for third party commercial use integration, hence still complying to the VACIE standards.

CERTIFICATION: EN54-16:2008

EN54-4:1997/A1:2002/A2:2006

The IMPACT on

the batteries.

4EVAC

Ok Cancel

4EVAC

Built to meet the highest expectations, still remain user friendly, flexible and cost effective, IMPACT sets a new

The IMPACT system consists of only two chassis, one controller

that transfers the network data stream to the amplifier and a DCA-

2.500 amplifier completed with at least one 4E-SW6 module.

The 4E-SW6 is an intelligent 2-into-6 Remote Controlled Zone

Expander and zoning module that subdivides broadcasts into

a multiple of six sub-areas. The 4E-SW6 provides 'built-in'

Now it is time to think smart and combine battery charger capabilities

with the integrated power amplifier. The DCA-2.500 amplifier not

only drives the system up to an impressive 1000 Watt, but it also

charges and surveys a scalable battery pack for up to three 1000

Watt amplifiers. This not only reduces hardware and rack-space

but most importantly, it decreases installation and operational costs

whilst increasing reliability. Simple to configure with its easy to

use GUI tool guiding software you create a systems solution

with multiple Voice-Alarm zones, paging-zones and music

areas in minutes. High quality DSP-processing guarantees state

of the art audio performance throughout the building as well as

highly intelligible pre-recorded and live message broadcast for both

IMPACT comes with a wide range of touchscreen emergency

consoles, wall-box and desktop paging consoles. The Global-

Network connects up to 32 CONTROLLERS and over 200 paging

consoles, GPIO modules and 4E-SW6 zone switching modules

4EVAC Manager is an overall programming application tool that

provides a comprehensive application specific interface to your

IMPACT and COMPACT500 networked system. The software

provides an overview of your overall system status and makes

system operation very easy through an intuitive and secure user

interface configuration tool that makes complex programming and

4EVAC Manager programming application for IMPACT and

Quick download and upload of the system configuration;

• Update of firmware and configuration over the Network to

complete copy of the system configuration file);

• Flashcard exchange protocol for quick system update

/ programming in case of computer access disability or

all-devices (Each CONTROLLER or COMPACT500 holds a

offering a staggering size of up to 1500 speaker-lines!

commercial and live-safety applications.

4EVAC MANAGER

service easier than ever.

COMPACT500 system provides:

emergency purpose.

4E-CMF

course for the Voice Alarm System industry.

loudspeaker monitoring.

4EVAC



EN 54-4

The CONTROLLER is the heart of the IMPACT system. Housed in a 1U 19-inch rack-mountable frame, it manages all VACIE operations. This involves the management and prioritising of audio streams coming from the network.

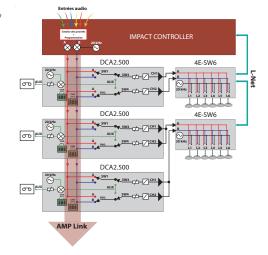


DCA 2.500 /

D-Class Charger Amplifier

Standing apart from any conventional power amplifier, the DCA2.500 features an in-built scalable battery charger with a temperature sensor that is EN54-4 compliant.





4E-SW6 /

Remote Controlled Zone Expander module

The **4E-SW6** Remote Controlled Zone Expander module is a simple and cost-effective way to distribute various speaker loads dynamically over multiple speaker-lines.



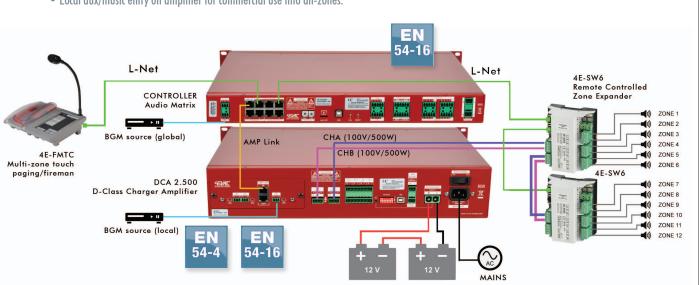
4EVAC

IMPACT system basic features complying to EN54-16:

- Power amplifier, 2 x 500 W
- Back-up amplifier included
 Determine the second for 20 min full
- Battery charger for 30 min full-load and 24 hours standby
- 12-loudspeaker lines / zones with EOL using 4E-SW6
 Simultaneous Paging & BGM or EVAC & ALERT into all-zones
- Phased evacuation into all-zones
- Multiple message player
- 32 x GPIO for fire-panel triggering
- Local aux/music entry on amplifier for commercial use into all-zones.

Component used:

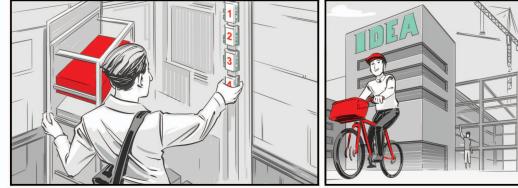
- 1 x CONTROLLER
- 1x DCA2.500
- 2 x 4E-SW6
- 1 x 4E-FMTC (optional Wallbox Fireman microphone)
- 12 x EOL module
- 2 x 12 VDC/38 AH batteries





FOR THE EXPANSION WITH BUILDING H YOU WILL ONLY NEED ONE SWG MODULE.









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EN 54-16

IMPACT **Voice Alarm Systems**

The **IMPACT** on decreasing installation and maintenance costs.

The **IMPACT** of configurable modular design on space saving.

The **IMPACT** of technology on the environment.

BRACE YOURSELF FOR







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