DIVA8S G2

COMPACT PAVA SYSTEM – SLAVE UNIT

DIVA8 system is a compact PAVA solution specifically designed for small to medium-scale installations. It has all the essential functionality to comply with EN 54 requirements for Voice Alarm, including full system monitoring, loudspeaker line impedance surveillance, microphone surveillance and monitored interfacing with remote devices.

DIVA8 responds to Public Address and Voice Alarm requirements as stated in EN54-16, ISO 7240-16 and BS5839/8, with specific attributes for compliance in large installations.

MAIN CHARACTERISTICS

- DIVA8-System Master Public address and emergency sound system slave unit

- 2 channel audio distribution for Paging and BGM

- combined back-up amplifier function

- 5 audio inputs

- 2 x 1000 Watt amplifier inputs

- Enhanced loudspeaker line surveillance for A/B-zoned installations

- 9 monitored control inputs

- 8 logic control inputs

- Ethernet interface for configuration, control, diagnostics and logging

- EN54-16 certified

CONNECTIVITY

The DIVA8S G2 Slave unit is an extension unit for the DIVA8M G2 Master. It increases the number of paging zones by 8 zones for each slave unit added in the system. Up to 15 slave units can be added per DIVA8 system and must be used in conjunction with the DIVA8M G2 Master. A complete DIVA8 system provides up to 128 zones (A/B). Slave units are linked to the system master via shielded CAT-5 cable (max. length 100m).

The DIVA8S G2 Slave handles the same 1000 W power capacity as the master unit (at 100V) on each amplifier channel (music + voice). Each zone can be routed manually or automatically to either channel. For maximum flexibility connected amplifiers can distribute their power across multiple slaves or additional amplifier channels can be added to the system to assist where more output power is needed. The 100 V amplifier signal is simply linked to the slaves to create a 100 V signal bus.

INTERFACING

DIVA8S G2 extends the number of input and output contacts available in the system. It includes nine alarm inputs triggered either by dry contact or relay (software-selectable), eight logic contact inputs, two external fault contact inputs and eight contact outputs.
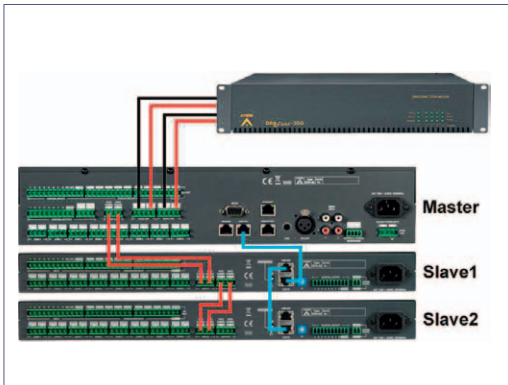
REDUNDANCY

In case of Evacuation, the amplifier music channel can be used as a second alarm channel. Each DIVA8 system requires only one 2-channel amplifier (one channel for music, one for voice). The music amplifier will also act as a backup amplifier in case of voice amplifier failure. Each channel can handle up to 1000 W audio power (at 100 V).

From the DIVA8M G2 Master unit front panel the user can manually route the fireman's microphone signal and three digital messages into selected zones, adjust the audio level and switch (ON/OFF) the music in each zone separately. In case of evacuation, the zone attenuators are automatically bypassed. One output contact per zone can be activated each time the zone is occupied with a source that has higher priority than the music (alarm or microphone paging).

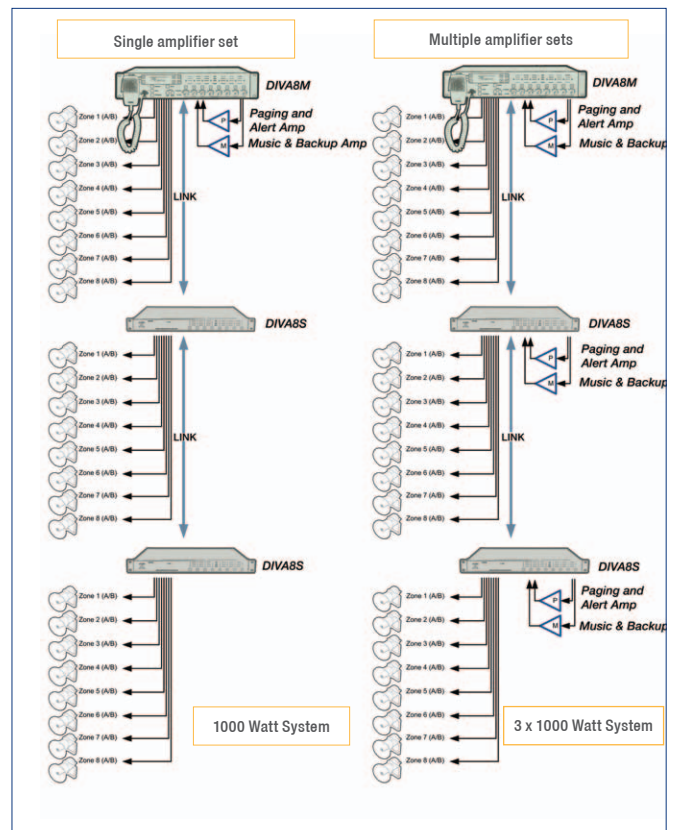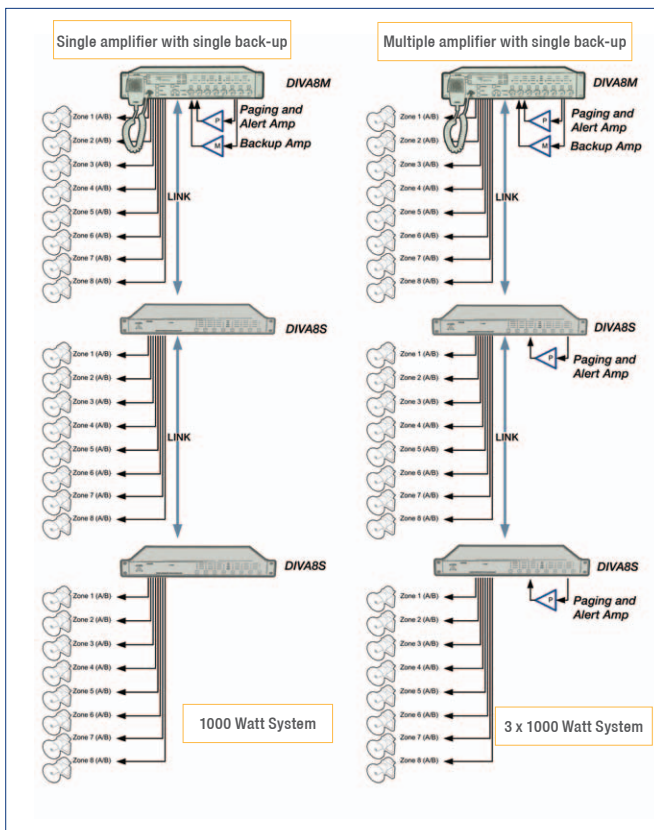## ATEÏS

INTERCONNECTIONS

SECURITY

In accordance with EN54-16, ISO 7240-16 and BS5839/8, all DIVA8 system components and peripherals are monitored. This monitoring extends from the capsule of a paging station microphone to the end of a loudspeaker line. The external cables connected to the control inputs are monitored for short and open circuit and an internally-generated pilot tone is available for monitoring impedance on the loudspeaker lines. The master unit monitors the status of all the equipment in the system, reports status changes and stores the last 999 fault messages in the system. This log can be accessed on the master unit display or on a PC using the DIVA8 control software.

DIVA8 system units operate either on mains power or on a 24V battery power supply for emergency back-up, with automatic switchover. Both power supplies are monitored.

INSTALLATION NOTES

DIVA8S G2

COMPACT PAVA SYSTEM – SLAVE UNIT

CONTROLS AND INDICATORS

Front

- Zone selection buttons
- Zone status indicators

INTERCONNECTIONS

Rear

- AC Mains input
- 24 V DC Battery backup input
- 9 EVAC inputs
- 8 control inputs
- 2 fault inputs
- 8 control outputs
- Master to Slave link
- 8 zone 100 Volt outputs (A+B)

CERTIFICATIONS AND APPROVALS

REGION	CERTIFICATIONS	
Europe	CE	CE – 0359 (Intertek)
	Immunity	according to EN50103-4
	PAVA	EN54-16 certified 2012

PARTS INCLUDED

Quantities	Components
1	DIVA8SG2 Slave unit
1	Power cord
1	Set of connectors
1	Set of 19" mounting brackets

TECHNICAL SPECIFICATIONS

Electrical

Mains power supply

Voltage	115 or 230 VAC ±15%, 50/60 Hz
Power consumption	35 W

Battery power supply

Voltage	18 - 26 VDC

Performance

Frequency response	-3 dB @ 20 Hz and 20 kHz

Amplifier lines in	2 x 100 V
Max rated output power	1000 W (cont. at 40°C)
Frequency response	-3 dB @ 50 Hz and 18 kHz
Input level	16 dBu

Loudspeaker lines out	16 x
Rated load resistance	100 ohm (100 V)
Rated power	100 W (cont. at 40°C)

Mechanical

Dimensions (H x W x D)	
for 19" rack use, with brackets	44 x 483 x 277 mm
Weight	
DIVA8SG2	3.9 kg (8.6 lb)
Mounting	19"-rackmount
Colour	RAL7016

Environmental

Operating temperature	-5 ºC to +55 ºC (+23 ºF to +131 ºF)
Storage temperature	-40 ºC to +70 ºC (-40 ºF to +158 ºF)
Relative humidity	15% to 90%
Air pressure	600 to 1100 h Pa

Ordering Information

DIVA8SG2 Slave unit

CE 12
0359-CDP-0140

DIVA8S G2

COMPACT PAVA SYSTEM – SLAVE UNIT

1.	Power indicator
2.	Zone status indicators
3.	Zone selection buttons

1.	Control inputs
2.	Evacuation inputs
3.	Master – Slave link
4.	24 V DC backup input
5.	Speaker zone outputs (A+B lines)
6.	100 V signal links
7.	Terminator switch (Last slave in the line)
8.	Slave-ID rotary switch
9.	Logic outputs
10.	AC power input