DIVA8SG2

COMPACT PAVA SYSTEM – SLAVE UNIT – SWITCH MODE

MAIN CHARACTERISTICS

- 2 channel audio distribution for Paging and BGM combined back-up amplifier function
- Ethernet interface for configuration, control, diagnostics and logging via DIVA8MG2
- 9 monitored logic control inputs, 8 non-monitored logic control inputs
- 1000 Watts maximum load / 100V line outputs per channel amplifier
- Enhanced loudspeaker line surveillance for A/B-zoned installations
- Full monitoring of PSS and PSM paging consoles
- 1 Fault relays & 1 EVAC relays outputs
- 1U standard 19" rack mounting
- 8 Logic relay contacts
- EN54-16 certified

DIVA8G2 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.

DIVA8G2 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.

CONNECTIVITY:

The DIVA8SG2 Slave unit is an extension unit for the DIVA8MG2 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 DIVA8G2 system and must be used in conjunction with the DIVA8MG2 Master. A complete DIVA8G2 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 DIVA8SG2 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:

DIVA8SG2 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 DIVA8G2 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).

Users shall manually route the Fireman microphone signal, three digital messages into selected zones, adjust the audio level and switch (ON/OFF) the music in each zones separately from the front-panel of DIVA8MG2 (Master unit). In case of evacuation, the zone attenuators are automatically bypassed. One contact output contact per zone can be activated each time once the zone is occupied with a source that has higher priority than the music (alarm or microphone paging).

SECURITY:

In accordance with EN54-16, ISO 7240-16 and BS5839/8, all DIVA8G2 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 for the system, reports status changes and stores the last 2047 incident in the system. This log can be accessed on the master unit display or on a PC using the DIVA8G2 control software.

DIVA8G2 system units operate either on 110VAC or 230VAC mains power supply or on a 24V battery power supply for emergency back-up, with automatic switchover. Both power supplies are monitored.

DIVA8SG2

CONTROLS AND INDICATORS

Front

- Zone selection buttons
- Zone status / Power indicators
- VACIE indicators (EVAC / Fault / Alert / Page / Selected)

INTERCONNECTIONS

Rear

- AC power socket
- 24VDC backup power input
- 9 EVAC inputs
- 8 control inputs
- 2 state inputs(open contact & close contact)
- Master to Slave link
- 8 zone 100 Volt outputs (A+B)
- Terminator switch

CERTIFICATIONS AND APPROVALS

REGIONAL CERTIFICATIONS

Europe	Voice Alarm	EN54-16 certified 2012
		CE – 0359
		according to EN50130 – 4

PARTS INCLUDED

Quantities	Components
1	DIVA8SG2 Slave unit
1	Power cord (type depends on region)
1	Set of connectors
1	Set of 19" mounting brackets

TECHNICAL SPECIFICATIONS

Electrical

Mains power supply

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

Battery power supply

Voltage	18 - 30 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 (8 zones x 2 A/B)
Rated power	1000 W (cont. at 40°C)

Mechanical

Dimensions (With 19" rack mount brackets)	
(H x W x D)	1RU, 44 x 483 x 277 mm
	(1-3/4' x 19" x 10-9/10")
Weight	3.9 kg (8.6 lbs)
Mounting	19"-rack mount
Color	RAL7016

Environmental

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

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