

# DIVA8 system

## DIVA8S

### Compact PAVA system - SLAVE UNIT



### DIVA8S / extension to DIVA8M

DIVA8S is a Slave unit for the DIVA8M Master unit. It increases the number of paging zones by 8 zones for each Slave unit added in the system. The maximum number of Slave units is 15, which means a complete system (master plus slaves) of up to 128 zones.

The DIVA8S Slave Unit also extends the amount of input and output contacts. It includes 9 alarm inputs triggered either by dry contact or voltage (software setting), 8 logic input contacts, 2 external fault input contacts and 8 output contacts.

The DIVA8S Slave Unit offers the same power capacity as the master unit being 1000 W of audio power (100 V) on each amplifier channel (voice and music).

For maximum flexibility, the master unit amplifiers can share their power with all the slaves, or additional amplifier channels can be added to the system where more output power is needed. The 100 V amplifier signal is simply linked to slaves to create a 100 V signal bus. See figure 1 and 2 for wiring examples.

All the zones and amplifier channels in the DIVA8 System can be constantly monitored (software setting).

Like DIVA8M Master unit and DIVA8S Slave unit can be directly supplied with 110 V-230 V or powered by 24 VDC as a battery backup. The DIVA8M Master unit and the DIVA8S Slave unit are linked using shielded CAT5 cable.

As a part of the DIVA8 System, The DIVA8S Slave unit complies with current standards.

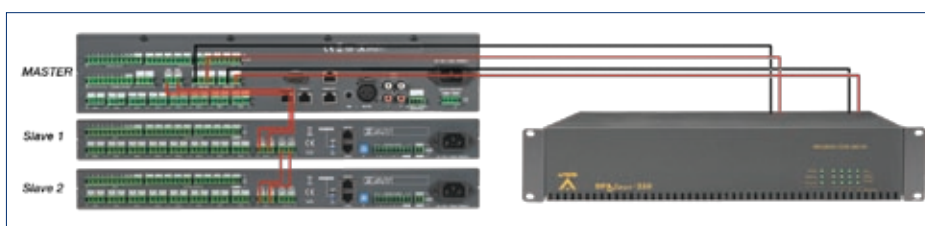


Figure 1: DIVA8M Master unit and DIVA8S Slave unit

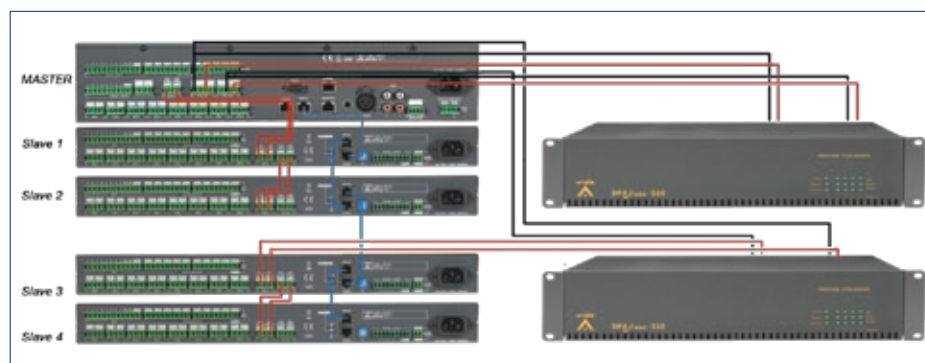


Figure 2: DIVA8M Master unit and DIVA8S Slave unit with 4 amplifier channels

### DIVA8S Slave unit CHARACTERISTICS

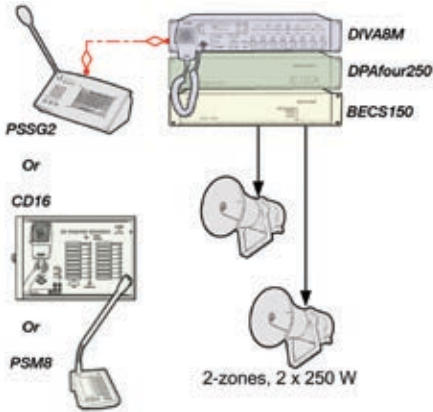
- 8 loudspeaker zones extension (A + B).
- 1000 W max power on each channel.
- 9 evacuation input contacts (with surveillance).
- 8 logic input contacts.
- 2 fault input contacts.
- 8 output contacts.
- Front panel zone selection buttons.
- 1U 19".

### COMBINED with DIVA8M Master unit

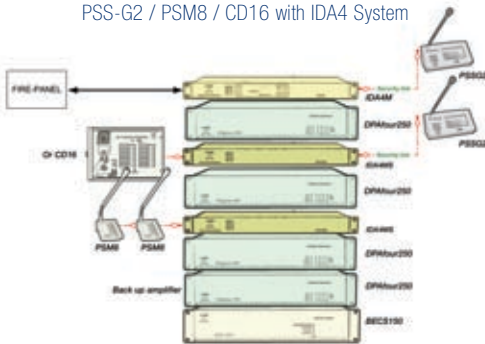
- Up to 128 zones switching system.
- 5 audio inputs (2x Music, 1x Mic/line, 1x PSS or PSM, 1x Fireman microphone).
- 45 min of message memory.
- Full amplifiers and zones monitoring.
- Single and Dual channel switching. (See example 2)

# Consoles & Accessories

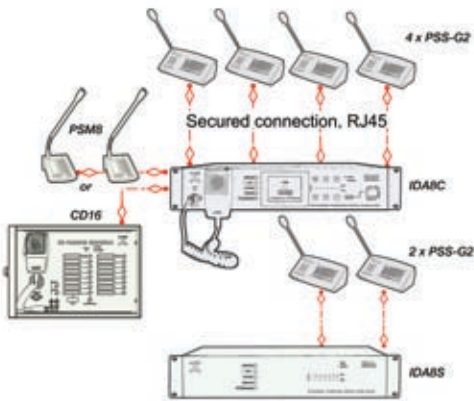
PSS-G2 / CD16 / PSM8 with DIVA8 System



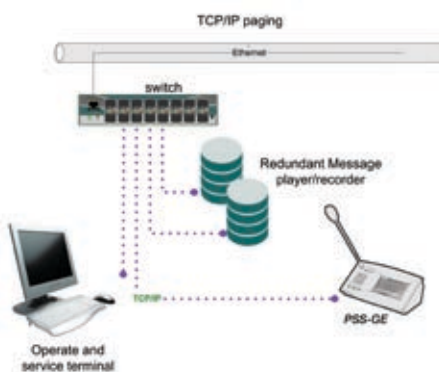
PSS-G2 / PSM8 / CD16 with IDA4 System



PSS-G2 / PSM8 / CD16 with IDA8 System



PSSG2E with DIVA8 and IDA8 System



COMPATIBILITY		DIVA8 System	IDA4 System	IDA8 System
CD16	V	1 pcs Secured on Master unit. 2 <sup>nd</sup> and more on Master unit are not secured	V	1 pcs Secured on Master or Slave unit. 2 <sup>nd</sup> and more on Master or Slave unit are not secured
		Max. 10 in Master-slave string	Max. 32 in a system and 10 in Master-slave string	Max. 32 in a system and 10 in Master-slave string
PSS849	X		V	1 pcs per IDA4xx
				Max. 1 in a system
PABFMP	X		V	1 pcs per IDA4xx Master or Slave unit, using one audio input
PSS96DT	X		V	1 pcs per IDA4xx Master and/or Slave unit
				Max. 32 in a system
PSSG2-16	V	1 pcs on Master unit (g2)		
		Max. 1 unit in a system		
PSSG2	V	1 pcs on Master unit (g2)	V	1 pcs per IDA4xx Master and/or Slave unit
		Max. 1 unit in a system		Max. 32 in a system
				Max. 64 in a system
PSSG2E	V	Max. 8 pcs over TCP/IP (g2)	X	
PSM8	V	1 pcs Secured on Master unit. 2 <sup>nd</sup> and more on Master unit are not secured. Using 1x audio input	X	1 pcs Secured on Master and/or Slave unit. 2 <sup>nd</sup> and more on Master and/or Slave unit are not secured. Using 1x audio input
		Max. 10 in Master-slave string	Max. 32 in a system and 10 in Master-slave string	Max. 32 in a system and 10 in Master-slave string
SHM-1	V	1 pcs supplied with the DIVA8 System	V	In combination with IDA-SEC, using one audio input
SPM-1	X		V	In combination with IDA-SEC, using one audio input
NSM	X		V	1 pcs on Master and/or Slave unit.
				8 pcs on Controller and/or Slave unit.
EVACg2-x	V	1 pcs on Master unit (g2)	V	1 pcs per IDA4xx Master and/or Slave unit
				4 pcs per IDA8C unit & 2 pcs per IDA8S unit
DIGIM1	V	Using one audio input with DIGI-INT (Optional EVAQg2 required)	V	Using one audio input with DIGI-INT
				Using one audio input with DIGI-INT
DIGIM4	V	Using one audio input with DIGI-INT (Optional EVAQg2 required)	V	Using one audio input with DIGI-INT
				Using one audio input with DIGI-INT
DIGIM8	V	Using one audio input with DIGI-INT (Optional EVAQg2 required)	V	Using one audio input with DIGI-INT
				Using one audio input with DIGI-INT
PM1	V	Using one audio input + one contact (Optional EVAQg2 required)	V	Using one audio input + one contact
				Using one audio input + one contact (Optional EVAQg2 required)
PPMIT5	X		X	
				Ethernet multi-target unit. One audio input
URC	X		X	
				Using RS485
URC-200	X		X	
				Using Ethernet

- Audio Distribution over IP
- Commercial Audio
- Intelligent Acoustic Solutions
- Intercommunication
- Loudspeakers



## DIVA single channel and dual channel application

### DIVA8 SYSTEM

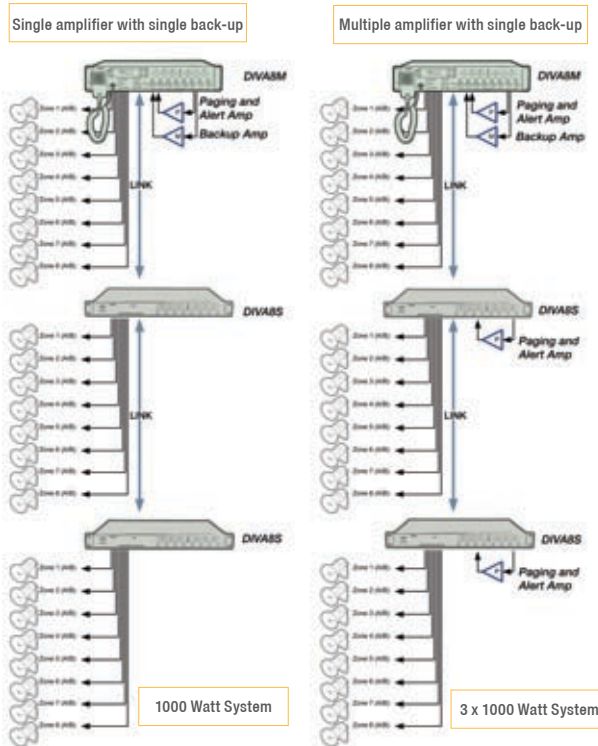
The DIVA8M Master unit and DIVA8S Slave unit are designed for entry level solutions. It provides a cost effective system when only paging or paging with BGM is required. The DIVA8 System concept utilises switched audio distribution from a single amplifier source to up to 128 loudspeaker groups. DIVA8M Master unit and DIVA8S Slave unit have 4 different system solutions:

Block-diagram #1 - DIVA8M Master unit and DIVA8S Slave unit in SINGLE CHANNEL mode shows how DIVA8M Master unit and DIVA8S Slave unit are connected to the amplifiers and to the loudspeaker lines using multiple slaves.

#### 1. SINGLE-audio for Paging/Alert and Back-up for small loads:

In the 1000 Watt version, the PAGING/ALERT amplifier feeds the master zones and the slave zones using a link that carries the 100 Volt line output of the PAGING/ALERT amplifier. The BACK-UP amplifier is connected the same way. The BACK-UP amplifier must have the same power capacity as the PAGING/ALERT amplifier for back-up in case of amplifier failure.

This solution requires only 2 amplifiers.



#### 2. SINGLE-audio for Paging/Alert and Back-up for higher loads:

In the 3000 Watt version, the PAGING/ALERT amplifier feeds the master zones and the slave zones using a link that carries the 0 dB audio output from the DIVA8M Master unit to the DIVA8S Slave units, feeding into additional amplifiers. 100 Volt line output of the slave amplifiers are switched to the zone of the DIVA8S Slave unit. The BACK-UP amplifier is only connected to the DIVA8M Master unit using a link that carries the 100 Volt line output of the Back-up amplifier the same way to the Slaves.

In this configuration, the system only needs 1 Back-up amplifier that is shared over the multiple DIVA Master and Slave units.

The BACK-UP amplifier must have the same power capacity as the largest PAGING/ALERT amplifier in the system for back-up in case of amplifier failure.

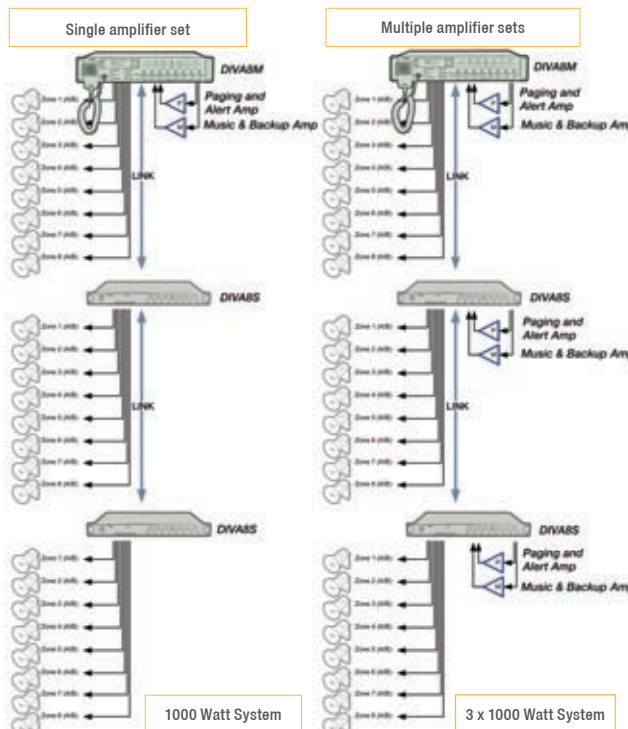
This solution requires 2 amplifiers per DIVA8M Master unit and a single amplifier per DIVA8S Slave unit.

Block-diagram #2 - DIVA8M Master unit and DIVA8S Slave unit in DUALCHANNEL mode shows how DIVA8M Master unit and DIVA8S Slave unit are connected to the amplifiers and to the loudspeaker

#### 3. DUAL-audio for Paging/Alert and BGM/Back-up for small loads:

In the 1000 Watt version, the PAGING/ALERT amplifier feeds the master zones and the slave zones using a link that carries the 100 Volt line output of the PAGING/ALERT amplifier. The BGM/BACK-UP amplifier is connected the same way. In such both amplifiers are providing paging and music at the same time to individual zones. The BGM/BACK-UP amplifier must have the same size as the PAGING/ALERT amplifier for back-up in case of amplifier failure.

This solution requires only 2 amplifiers.



#### 4. DUAL-audio for Paging/Alert and BGM/Back-up for higher loads:

In the 3000 Watt version, the PAGING/ALERT amplifier feeds the master zones and the slave zones using a link that carries the 0 dB audio output from the DIVA8M Master unit to the DIVA8S Slave units, feeding into additional amplifiers. 100 Volt line output of the slave amplifiers are switched to the zone of the DIVA8S Slave unit. The MUSIC/BACK-UP amplifier is connected the same way. In this configuration amplifiers are providing paging and music simultaneously to individual zones.

The BGM/BACK-UP amplifier must have the same power capacity as the PAGING/ALERT amplifier for back-up in case of amplifier failure.

This solution requires 2 amplifiers per DIVA8 Master unit and DIVA8S Slave unit.