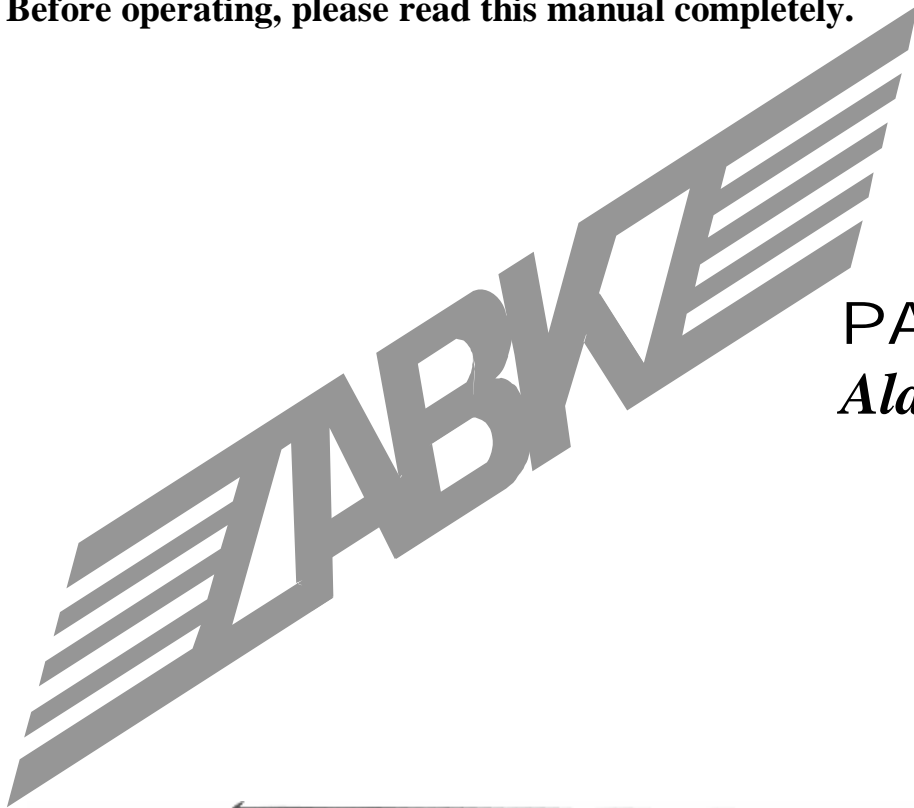


OWNER'S MANUAL

Before operating, please read this manual completely.



PA-2085A
Alarm Matrix



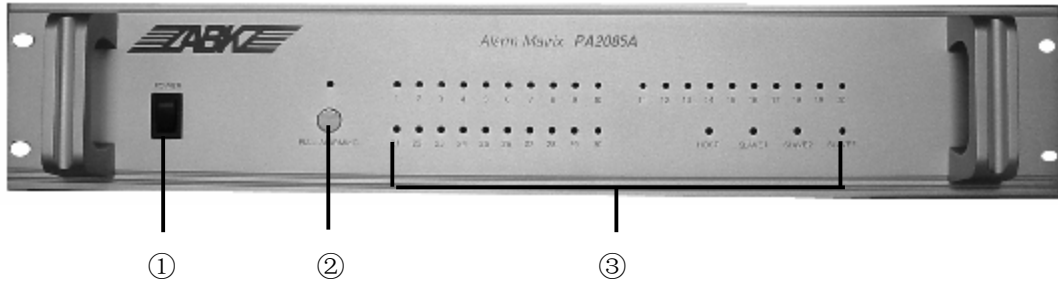
FEATURES

- I INTELLECT INTERFACE** between P.A. system and survey center.
- I AUTO ACTIVATES** emergency broadcasting while alarm.
- I EXTENSION FUNCTIONS** up to 120 channels to be control.
- I PROGRAMMABLE** for valid alarm level setting and for more neighboring areas activating at the same time.

Left blank for memo

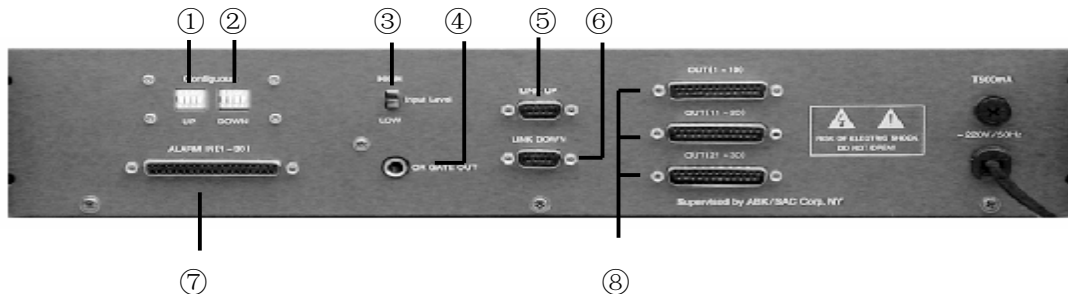


FRONT PANEL



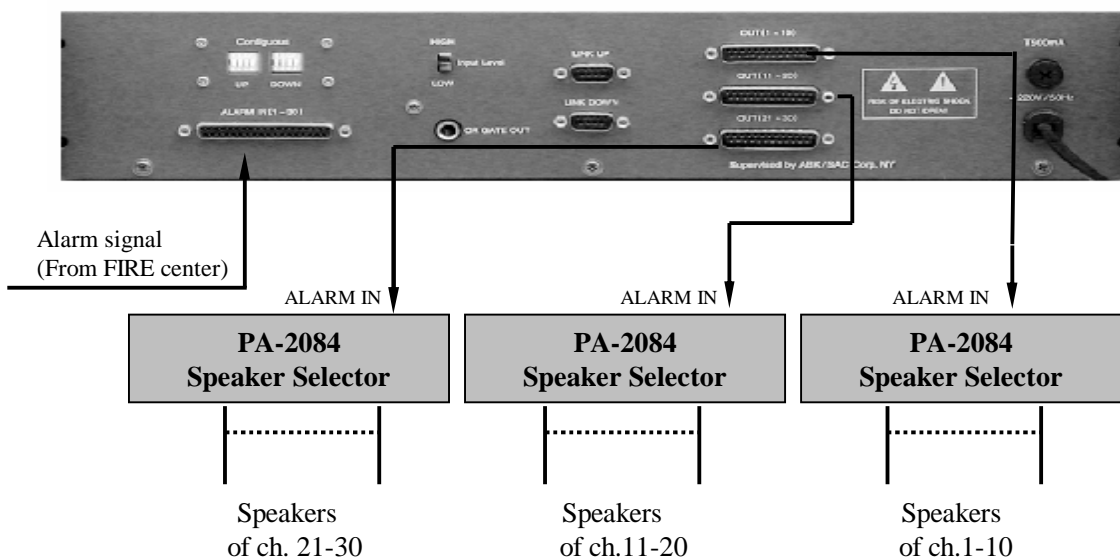
- ① Power Switch(1 is power on and the “power LED” is on)
- ② Full Alarming Knob
- ③ Status Display

REAR PANEL



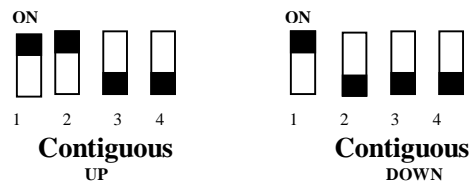
- ① **Contiguous Down:** Preset active area down of the **ALARM** point
- ② **Contiguous Up :** Preset active area up of the **ALARM** point
- ③ **Input logic preset**
- ④ **Sum of output**
- ⑤ **Link Up :** for extension
- ⑥ **Link down:** for extension
- ⑦ **Alarm in :** input terminal
- ⑧ **Alarm out:** output terminal of ch.1-10, ch.11-20 and ch.21-30.

CONNECTIONS



OPERATING

- 1. Alarm Signal Input** Alarm signal is fed to **ALARM IN** ⑦ from Survey or Fire Center. From pin 1 to pin30 are **live** terminals of ch.1-ch.30 and others are COM. +5 ~ 24V / 0V level of signal is available. If INPUT LOGIC ③ set at **H**, positive signal is valid; While set at **L**, 0V (grounded signal) is valid.
- 2. Output Arrangement** 3 **ALARM OUT** ⑧ sockets (10 channels one socket) are for output. From pin 1 to pin 10 of every socket are **live** terminals, and others are **com (ground)**.
 Output of **ch.n** will be activating while it received an alarm signal. We can make other channels nearby **ch.n** are activating at the same time with switch **Contiguous** ①② preset. Locations 1,2,3 and 4 of **Contiguous DOWN** ① are for **ch.(n-1)**, **ch.(n-2)**, **ch.(n-3)** and **ch.(n-4)** respectively. Locations 1,2,3 and 4 of **Contiguous UP** ② are for **ch.(n+1)**, **ch.(n+2)**, **ch.(n+3)** and **ch.(n+4)** respectively. All of them are valid at **ON** position. For example, if the P.A. area is a building with floor **nth (Fn)** being on fire, we hope that an emergency alarm should not only send to **Fn** but also send to **F(n+1)**, **F(n+2)** and **F(n-1)**, then we should preset as follow:



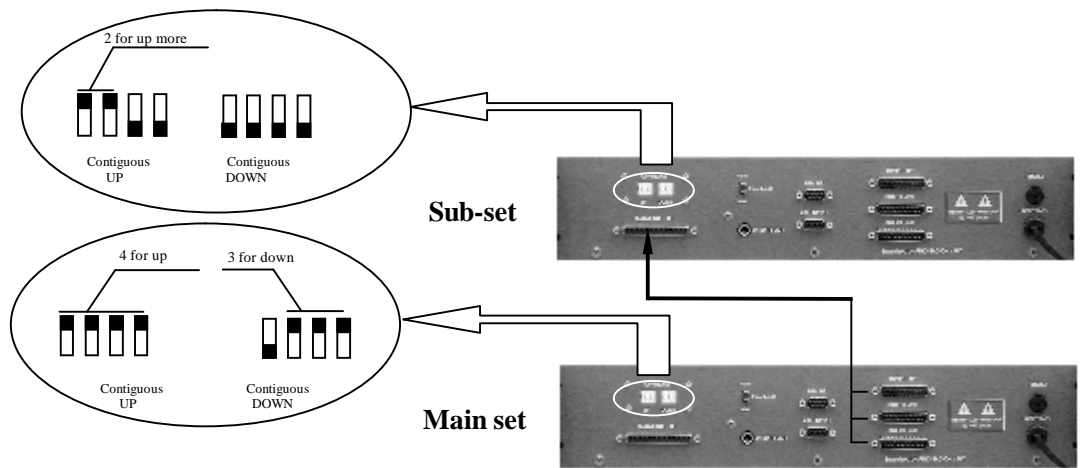
- 3. Sum of Output** As soon as any or many channel received an alarm, the **OR GATE** ④ terminal will be activated, a grounded signal thus appears at this jack. It can be used as “**Logic OR**” of alarm for other equipment control.
- 4. Full Alarming** Press down **Full Alarming** knob on the front panel, all output terminals are activated immediately regardless the inputs.
- 5. Extension**
 - Link** This model offers 30 channels one set. We can make a link for more channels under control:



The preset of **HOST** is valid and covers all of the slaves in a link.

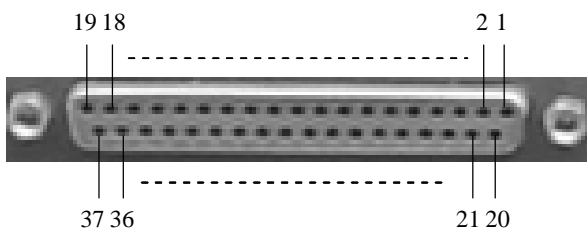
- Series** Up to ± 4 neighbor channels can be preset for activated simultaneously. We also can make

a series for extension. For example, when need 6 up-channels and 3 down-channels activating at the same time, make the series system as follow:

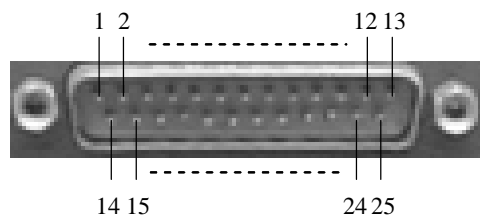


6. Status Display LEDs from No.1 to No.30 on the right side of front panel indicate channels being activating. And status LEDs **HOST**, **SLAVE1**, **SLAVE2** and **SLAVE3** on right down of the front panel indicate the position of this model in a link. While link, this model can identify it's own position itself and the status LED lights up automatically. LED **HOST** for **ch.1~ch.30**, LED **SLAVE1** for **ch.31~ch.60**, LED **SLAVE2** for **ch.61~ch.90** and LED **SLAVE3** for **ch.91~ch.120**.

7. The socket connect sequence as follows:



1~30 Live Terminals of CH1~CH10 respectively
31~37 COM



1~10 Live Terminals of CH1~CH10 respectively
11~25 COM

SPECIFICATIONS

Channels	30, extendible
Contiguous up / down	± 4 channels, extendible
Logic Level	+5 ~ 24 V / 0 V, preset available
Protection	AC fuse $\times 1$
Power Requirement	AC 220 – 240 V / 50 ~ 60 Hz
Dimensions	485 \times 88 \times 378 mm
Gross weight	6.5 kg
Net weight	5.2 kg

Specifications are subject to be changed without notice.

CAUTION

- When the “Power switcher” is off, please pull out the power cord from the socket.
- Please keep the equipment out of water.
- To reduce the risk of electric shock, do not remove the cover.
- No user parts inside. Refer servicing to qualified service personnel.

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