

MODEL SAP612 SOURCE ASSIGN PANEL

CHANNEL ASSIGNMENT FOR USER STATIONS

**INTRODUCTION**

The Model SAP612 Source Assign Panel is a TW Intercom System ancillary product that can be used to augment intercom system flexibility and enhance operational capabilities.

The SAP612 provides a convenient means of assigning any one of six intercom channels, or four intercom channels and two program audio channels, to 12 separate intercom user stations — or strings of stations. Viewed as a “matrix switch,” it transforms a basic two bus intercom system into a six bus system.

The SAP612 can be used as an intermediary between multi-channel master stations and TW Intercom System components such as user stations and interface devices. The master stations have multiple channel capability and can access a number of lines independently or simultaneously, while the user stations have but only channel capability. Once the individual channel assignments are made, the master station can selectively communicate with any one or combination of user stations programmed to the respective channels.

Alternatively, when master stations are not employed, the SAP612 can be used to create a multi-channel system using single or dual channel user stations. Typically, a “common chatter” channel is set on channel 1 so all stations can communicate among themselves. The second channel is assigned according to operations; that is, each group of users working as a team can communicate on a common sub-channel without interference from other sub-channel groups. For example, a television studio configuration might assign the main production circuit to channel 1 while the sub-channel groups (channels 2 thru 6) might consist of audio, lighting, graphics, second level production, VTR, and Telco. A variation would incorporate two program feeds: composite program and an IFB circuit.

ASSIGNMENT

Any one of the 6 intercom channels (input busses) or 2 program channels can be assigned to any one of the 12 output lines; each line consists of two separate feeds from the SAP612. For example, a given user station may be assigned intercom channels 1 and 2. Another station may be assigned intercom channel 3 and program source 2.

User stations grouped together on a single output are called “a string of user stations.” The quantity of stations allowed on each output depends upon the type of user station, headset or speaker, line powered or AC line powered.

Typically, about 15 headset stations or 6 speaker stations, per output pair, can be employed. A combination of the two would vary the total number allowed — depending on the individual quantities of each type.

OUTPUTS

Output connections can be made directly to a single user station or a group of user stations. Three-pin XLR type male connectors allow for standard mic cable usage. Multiple stations can interconnect via loop-thru connectors on individual user stations or via Model TW5W 1x5 Splitters.

INPUTS

Three XLR-type female connectors accommodate three separate 2-channel power supplies, models PS15 or PS8. These power supplies offer a single powered channel and a single passive channel (non-powered 200 ohm line). If three supplies are connected channels 1, 3, & 5 will be powered. This means the channel 1 slide switch can only select those respective channels. (Each line powered user station requires power on its channel 1 input.) If a pair of PS31 Power Supplies are used, then all 6 channels will be powered. When only a single power supply is employed channels 3 - 6 are not externally terminated. To compensate for this, a series of rear panel select switches can be engaged to provide the proper 200 ohm line termination for channels 2 thru 6 as necessary.

The two program inputs appear on a pair of 1/4" TRS jacks and are assigned to switch positions 5 and 6. When CH 5-6 termination switches are the “Switch-In” position, the program feeds are connected to busses 5 and 6. If intercom signals are present concurrently, the program material will be mixed with the intercom signals as a composite mix. If intercom signals do not exist, then the program feed remains unaffected.

Program material can also be mixed with intercom signals at the power supply(s), prior to the SAP612.

EXPANDED OPERATION

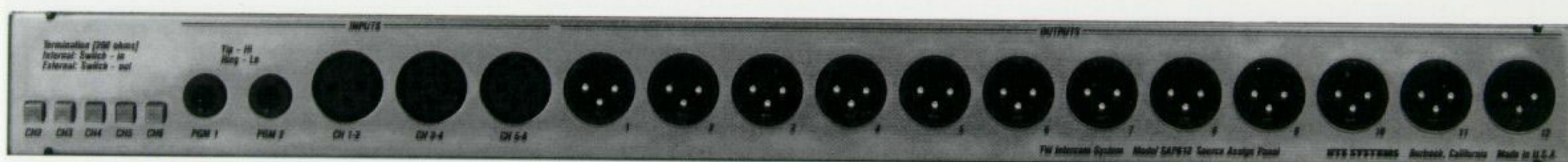
Designed specifically to work within the TW Intercom System, the SAP612 is a cost-effective device that can be used in small, medium or large systems. If additional output assignments are required, two or more SAP612s can be operated in parallel. The SAP612 is completely passive and therefore does not require a power source.

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MODEL SAP612 SPECIFICATIONS

Maximum Switch Carrying Current	1.0 amp per output
Maximum Switch Breaking Current	0.5 amp per output
Inputs	
Intercom Levels	6 lines, full-duplex 2 volts p-p nominal In and out
Program	2 sources, simplex
Input Impedance	600 ohms
Input Level Range	-4 dBm to +8 dBm

Outputs (Two-Channel)	Twelve 3-pin male XLR-type connectors
Power Requirements	Power is derived from the TW Intercom Power Supply(s)
Dimensions/Weight	1.72"H x 19.0"W x 8"D - 5.2 lbs 44H x 484W x 204D mm - 2.36 kg
Finish	Light gray enamel front panel Gold iridite rear housing

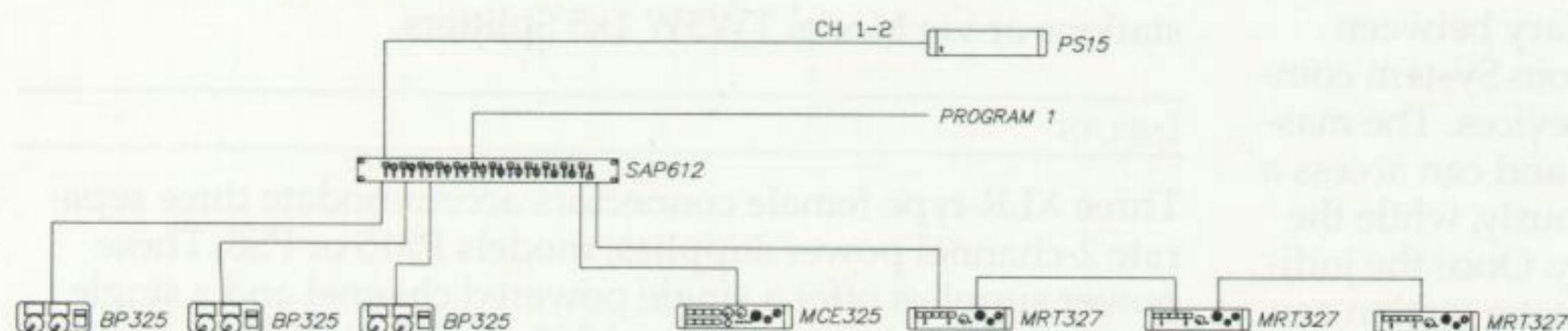


Model SAP612 Rear Panel

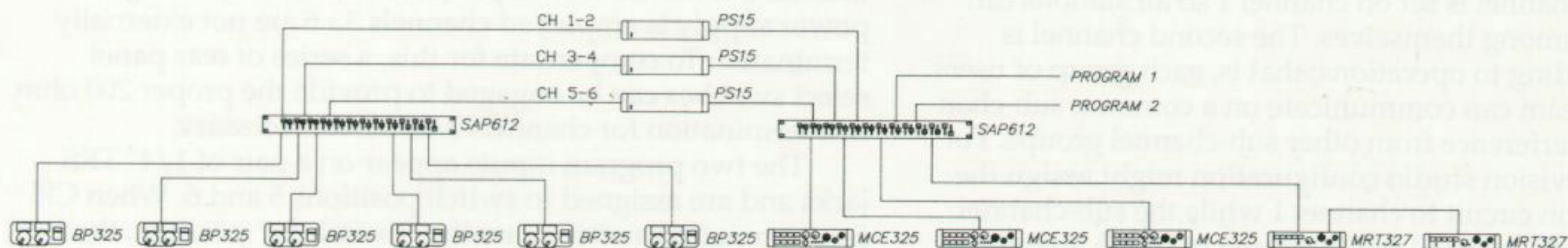
SYSTEM BLOCK DIAGRAMS

The first diagram shows a single SAP612 assigning channels to a quantity of user stations. (Only seven stations are shown for graphic simplicity.) This system can accommodate 12 individual stations, 12 strings of stations (as shown on output #12), or a combination of both. A single PS15 is employed for power on the CH 1 bus while channels 2, 3, 4, 5 & 6 are terminated via the termination switches. The program input appears on bus 5.

A medium to large size system configuration can be created by using two Source Assignment Panels and three power supplies. The pair of SAP612s offer 24 assignable output pairs. To maintain the six common channels between the two SAPs, the PS15s are parallel connected. Program inputs 1 & 2 are available on channels 5 & 6.



Typical System Configuration Employing Model SAP612



Typical System Configuration Employing Two Model SAP612s

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