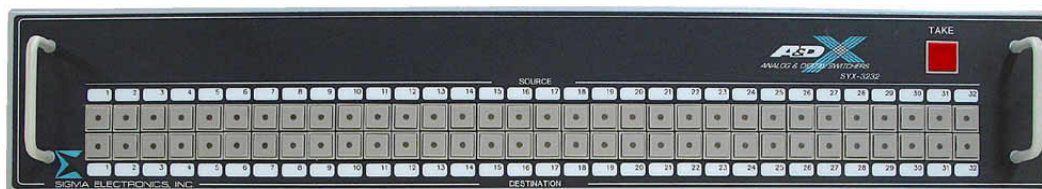


SYX-3232

ADX SERIES
SYSTEM CONTROL PANEL
32 Source By 32 Destination

OPERATOR'S MANUAL



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INTRODUCTION

The SYX-3232 is a system master control panel capable of controlling 32 inputs and 32 outputs. Operator's have quick access to switching via the button per source, button per destination layout. The panel operates in the **FOLLOW** mode. In this mode all channels in the system switch together. Sigma can provide alternative control panels which operate in a **BREAKAWAY** mode, where only the selected input level will change, or a **SPLIT** mode where the level(s) can be individually set.

Each remote panel is controlled by the SCI-ADX interface card located in the master ADF-64 frame. Connection is made to one of the BNCs labeled "COMM". This coaxial cable can be up to 1000' in length. Additional panels can be added by using BNC "T" connectors to tap off another line to the next panel. The system is capable of handling up to 64 panels in total. These can be either system or single bus panels. Each panel in a system must have a unique address which is set by a dip switch located through an opening on the rear of the control panel. If the control panel cannot establish initial communications with the SCI controller via the COMM line, 00 will be displayed in the level windows and the keyboard will not function.

Green numeric LEDs display the input levels on the front of the control panel. Although level control is defeated in this panel the display window will indicate status and preset information. The currently active output is indicated by the illuminated LED in the center of the output select button. The status of any DESTINATION in the system can be displayed by selecting that destination's button.

PANEL CONTROL

The SYX-3232 front panel is divided into 4 sections: SOURCE, DESTINATION, TAKE and STATUS.

SOURCE: The top row of buttons are designated as source select buttons 1 through 32. The panel operates in the FOLLOW mode.

PRESET MODE (Auto Take disabled)

The Preset mode offers multiple ways to perform a switch. This provides control panel flexibility to accommodate operator's requirements. The operator can either select a SOURCE followed by a DESTINATION and then complete the transaction by pressing the TAKE button. This method is the full preset transaction.

SAMPLE 1: Switch source 16 to destination 1 in the full preset mode. [SOURCE, DESTINATION, TAKE]

Select SOURCE button 16. The center LED flashes in the #16 source button.

Select DESTINATION button 1. The center LED flashes in the #1 destination button and #16 source button.

To finish the transaction, press the TAKE button. Transaction occurs and status is indicated by illuminated LEDs.

Within the operation of the Preset mode the order of selecting the source and destination is not critical. The destination may be selected first. This is not a true preset but actually a status selection. However, following the selection of the destination with a source selection, causes that source to be preset. to complete the transaction press the TAKE button. This method is a combination of status and preset mode.

SAMPLE 2: Switch source 16 to destination 1 by selecting the destination first. [DESTINATION, SOURCE, TAKE]

Select DESTINATION button 1. The center LED illuminates in the #1 destination button and a source button illuminates to show the current status of destination #1.

Select SOURCE button 16. The center LED flashes in the #16 source button and destination button #1 is lit.

To finish the transaction, press the TAKE button. Transaction occurs and status is indicated by illuminated LEDs.

The Preset mode allows various inputs to be selected to a designated destination. The first step in this operation is to select the desired destination. When the destination button is illuminated any source may be switched to that destination by selecting the desired SOURCE followed by the TAKE button. Additional source selections may be executed by the SOURCE / TAKE combination without addressing the destination button.

SAMPLE 3: Rapid source selection on a common destination. Toggle between Source 16 and 32 on destination 12.

Select DESTINATION button 12. The center LED illuminates in the #12 destination button and a source button illuminates to show the current status of destination #12.

Select SOURCE button 16. The center LED flashes in the #16 source button and destination button #12 is lit.

To finish the transaction, press the TAKE button. Transaction occurs and status is indicated by illuminated LEDs.

Select SOURCE button 32. The center LED flashes in the #32 source button and destination button #12 is lit.

To finish the transaction, press the TAKE button. Transaction occurs and status is indicated by illuminated LEDs.

Repeat this process of source selection until another destination requires switching.

STATUS: The **LEVEL** windows are present as a status indicator only. The seven segment displays show the input that is present on the selected output. In the PRESET mode the level windows show a flashing input selection until the

TAKE button is pressed. Upon the TAKE function the display in the windows becomes the status display. The level lockout feature is not available on this panel.

KEYBOARD: The keyboard provides a button per source and destination. All source entries are made on the top row of buttons. All destination selections are made with the bottom row of buttons.

CLEAR: To clear an entry in the preset mode, simply select another source or destination before pressing the TAKE button. In the AutoTake mode the switch is made upon the selection of the source which does not allow the clear function.

TAKE: The red switch on the right side of the control panel is the TAKE button. When pressed, it sends to the SCI a request to change the current OUTPUT to the preset condition. The status of the switch request will be transmitted back to the panel by the SCI. When the panel receives the updated status, the display will stop flashing and reflect the current status of that output. If the displays remain flashing after a TAKE is generated, there is possibly a problem with the SCI or the COMM line.

AutoTake offers switching without the use of the TAKE switch. This is accomplished by setting S1,7 ON, through the rear panel. When the panel is in the AUTOTAKE mode, the switch is made the instant the preset condition is setup. The switch is made to the currently selected Destination. If the current destination is not correct, change it by selecting the proper destination button, then make the source selection switch.

SYX PANEL ADDRESS

Whenever there are multiple control panels in a system, such as additional SYX or SBX control panels, the Logical ADDRESS for each panel must be different. There are 64 possible addresses that the COMM port can access, and these addresses are set using S1,1-6 which is accessed through an opening on the rear panel.

ADDRESS	S1,1	S1,2	S1,3	S1,4	S1,5	S1,6	ADDRESS	S1,1	S1,2	S1,3	S1,4	S1,5	S1,6
1	OFF	OFF	OFF	OFF	OFF	OFF	33	ON	OFF	OFF	OFF	OFF	ON
2	OFF	OFF	OFF	OFF	ON	OFF	34	ON	OFF	OFF	OFF	ON	OFF
3	OFF	OFF	OFF	OFF	ON	ON	35	ON	OFF	OFF	OFF	ON	ON
4	OFF	OFF	OFF	ON	OFF	OFF	36	ON	OFF	OFF	ON	OFF	OFF
5	OFF	OFF	OFF	ON	ON	ON	37	ON	OFF	OFF	ON	OFF	ON
6	OFF	OFF	OFF	ON	ON	OFF	38	ON	OFF	OFF	ON	ON	OFF
7	OFF	OFF	OFF	ON	ON	ON	39	ON	OFF	OFF	ON	ON	ON
8	OFF	OFF	ON	OFF	OFF	OFF	40	ON	OFF	ON	OFF	OFF	OFF
9	OFF	OFF	ON	OFF	OFF	ON	41	ON	OFF	ON	OFF	OFF	ON
10	OFF	OFF	ON	OFF	ON	OFF	42	ON	OFF	ON	OFF	ON	OFF
11	OFF	OFF	ON	OFF	ON	ON	43	ON	OFF	ON	OFF	ON	ON
12	OFF	OFF	ON	ON	OFF	OFF	44	ON	OFF	ON	ON	OFF	OFF
13	OFF	OFF	ON	ON	ON	ON	45	ON	OFF	ON	ON	OFF	ON
14	OFF	OFF	ON	ON	ON	OFF	46	ON	OFF	ON	ON	ON	OFF
15	OFF	OFF	ON	ON	ON	ON	47	ON	OFF	ON	ON	ON	ON
16	OFF	ON	OFF	OFF	OFF	OFF	48	ON	ON	OFF	OFF	OFF	OFF
17	OFF	ON	OFF	OFF	OFF	ON	49	ON	ON	OFF	OFF	OFF	ON
18	OFF	ON	OFF	OFF	ON	OFF	50	ON	ON	OFF	OFF	ON	OFF
19	OFF	ON	OFF	OFF	ON	ON	51	ON	ON	OFF	OFF	ON	ON
20	OFF	ON	OFF	ON	OFF	OFF	52	ON	ON	OFF	ON	OFF	OFF
21	OFF	ON	OFF	ON	OFF	ON	53	ON	ON	OFF	ON	OFF	ON
22	OFF	ON	OFF	ON	ON	OFF	54	ON	ON	OFF	ON	ON	OFF
23	OFF	ON	OFF	ON	ON	ON	55	ON	ON	OFF	ON	ON	ON
24	OFF	ON	ON	OFF	OFF	OFF	56	ON	ON	ON	OFF	OFF	OFF
25	OFF	ON	ON	OFF	OFF	ON	57	ON	ON	ON	OFF	OFF	ON
26	OFF	ON	ON	OFF	ON	OFF	58	ON	ON	ON	OFF	ON	OFF
27	OFF	ON	ON	OFF	ON	ON	59	ON	ON	ON	OFF	ON	ON
28	OFF	ON	ON	ON	OFF	OFF	60	ON	ON	ON	ON	OFF	OFF
29	OFF	ON	ON	ON	OFF	ON	61	ON	ON	ON	ON	OFF	ON
30	OFF	ON	ON	ON	ON	OFF	62	ON	ON	ON	ON	ON	OFF
31	OFF	ON	ON	ON	ON	ON	63	ON	ON	ON	ON	ON	ON
32	ON	OFF	OFF	OFF	OFF	OFF	64	OFF	OFF	OFF	OFF	OFF	OFF

AUTOTAKE ENABLE

When the AUTOTAKE function is enabled, the take will automatically be generated whenever a valid source is selected. This requires the destination selection to be correct before the source is selected.

AUTOTAKE	S1,7
OFF	OFF
ENABLED	ON

The 9 Position Switch S2 is not functional on this control panel. (No Source Group or Output Address)

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