

RMP-SLX-3 / RMP-SLX-4
32 INPUT REMOTE CONTROL
OPERATOR'S MANUAL



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RMP-SLX-3 / RMP-SLX-4 SETUP AND USER INSTRUCTIONS

GENERAL INFORMATION

The RMP-SLX-3 and RMP-SLX-4 are remote master panels for the 32-output Sigma SLX series of routing switchers. They consist of two panels; one controlling inputs 1-16 and the other for inputs 17-32; a 120 VAC or 230 VAC wall-pack power supply and interconnect cables.

The RMP-SLX-3 controls 32 X 1 SLX switchers while the RMP-SLX-4 controls the 32 X 2 SLX switchers.

All power and control signals are passed between the two panels on the supplied 4-conductor modular cable. Switch instructions are transmitted to the main SLX switcher unit via 6-conductor modular cable.

These panels can be operated in either a normal pre-set mode or the "auto-take" mode as described below under "TAKE OPERATION".

For all SLX-321 systems, the RMP-SLX-3 operating capabilities are identical to the integral control panel on the SLX main frame.

For all SLX-322 systems, the RMP-SLX-4 operates identically to the integral control panel on the SLX main frame with **one notable exception**. Proper configuration of the SCI in the SLX-322 (S1,1 – S1,3 all set to ON), causes the RMP-SLX-4 to disable the Level Breakaway function in the RMP-SLX-4 and reprogram the switch on the left to perform the Channel Select function. By default, when power is initially applied, the RMP-SLX-4 will be configured to control the input to be switched to Channel 1. This is indicated by the illuminated red LED on the top left of the Channel select button. To activate the control of inputs to be switched to Channel 2, press the Channel select button once. This will illuminate the green LED on the top right of the Channel select button.

For a more detailed explanation of control panel operations and the protocol used, refer to the SLX Series Operator's Manual.

CONNECTIONS

The two panels (1 –16 and 17 – 32) are interconnected via a 1-ft. long, 4-conductor cable that is plugged into the jack labeled "RMP BUS" on both panels. Together they communicate with the SCI-161 (serial control card) in the main router frame through the supplied 6-conductor modular cable assembly. One end of this modular cable connects to the RMP-SLX-3/4 rear panel jack labeled "RS-422" (1-16 panel only). The other end connects to the DB-9 to RJ11 adapter. The adapter plugs into the SCI-161 rear panel connector labeled "SERIAL I/O".

TAKE OPERATION

All remote panels are set at the factory for normal pre-set operation, which requires the "TAKE" button to be pressed separately to complete a switch transaction after an input has been selected. There is another mode of operation for which this panel can be set. In the "auto-take" mode, the switch is executed immediately upon input selection. If the auto-take mode is desired, the rear cover of the unit must be removed and the take mode select jumper, J1, must be moved. The following procedure details how this can be accomplished.

Auto-Take Configuration Procedure

1. Remove the rear cover. The four screws on the rear panel must be removed as well as the four screws that mount the rear panel to the front panel.
2. Move jumper J1 to "auto-take" position. Jumper J1 is located just below the large 40-pin IC. Normal pre-set places the jumper between pins 2 & 3 of the header. For "auto-take" place the jumper between pins 1 & 2
3. Install the rear panel and all screws when finished.

NOTE: The pre-set function of the RMP-SLX-3 and the RMP-SLX-4 remote panels are independent of the setting of the pre-set mode selected for the control panel on the main SLX frame. Refer to the SLX Control Protocol manual for selection of "auto-take" on the main frame's control panel.

SCI CONFIGURATION

The SCI-161 must be properly configured to allow operation with the RMP-SLX-3 or RMP-SLX-4 remote panel. SLX systems that are purchased with an RMP-SLX remote panel are configured for proper operation with the supplied remote panel. To be certain that the SCI is configured properly, check the settings of SW1 as described in step 6 in the following procedure. If not configured properly, the serial I/O of the SCI must be changed from the RS-232 protocol to the RS-422 protocol. To do so requires the SCI-161 to be removed from the SLX main frame. The following procedure details how this can be accomplished.

RS-232-to-RS-422 Conversion Procedure

Note: The SCI-161 controller is the assembly with the labels, "SERIAL I/O" and "SWITCH 1" on the rear panel.

1. Turn off power to the switcher.
2. Remove the four screws that hold the SCI-161 rear panel into the frame. There are two on the top and two on the bottom. The frame may need to be removed from the rack to access the screws.
3. Remove the SCI-161 heatsink screw located on the bottom of the frame.
4. Remove the SCI-161 circuit assembly from the frame.
5. Locate the cable assembly that is connected to the DB-9 connector on the rear panel and the header J3 the PCB assembly, labeled RS-232. Move it to the header JP4, labeled "RS-422". When viewed from the rear of the SCI-161 assembly, it is the 10-pin header closest to the 4-pin DIP switch, SW2.
6. The switches on SW1, the 12-position piano-DIP switch, must be properly configured. The appropriate settings are as follows:

SW1-1	on	(down)	SW1-7	does not affect RMP-SLX
SW1-2	open	(up)	SW1-8	does not affect RMP-SLX
SW1-3	open	(up)	SW1-9	TAKE MODE*
SW1-4	open	(up)	SW1-10	open (up)
SW1-5	open	(up)	SW1-11	on (down)
SW1-6	open	(up)	SW1-12	on (down)

* User selectable and does not affect the take mode selected on the RMP-SLX-1 remote panel.

NOTE: Make no changes to SW2 unless instructed to do so by Sigma.

7. Replace the SCI-161 into the frame. Replace the rear panel screws and the heatsink screw on the bottom of the frame.
8. Return power to the SLX frame.
9. Connect the wall pack power supply to the power jack located on the rear of the RMP-SLX-3/4 and plug it into the appropriate AC line voltage.
10. The RMP-SLX-3/4 should now be functional. The display LED's may strobe from one side to the other (marquee style) for a short period of time until serial communication is established with the SCI-161. If, however, they continue to strobe after two to three complete cycles, serial communication between the RMP-SLX-3/4 and the SCI-161 has not been established. Inadequate connections are the most probable cause for serial communication failure. Double check that the modular connectors are fully seated within their sockets, the DB-9 to modular adapter is firmly attached to the rear of the SCI-161 and the adapter mounting screws are tight. If these actions do not establish a valid connection, call the factory for technical assistance.