

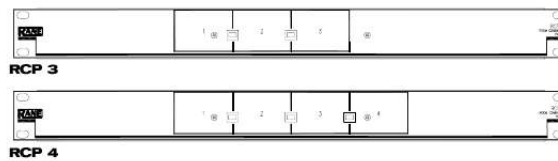


# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for RANE RCP 4. You'll find the answers to all your questions on the RANE RCP 4 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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## RANE DATA SHEET / MANUAL RCP 3 and RCP 4 ROOM COMBINING PANELS



### General Description

Rane has preprogrammed into the SRM 66 a room combining mode which makes setting up a 3 or 4 room combining system a quick task. The RCP 3 (three-room combining panel) and RCP 4 (four-room combining panel) are user friendly control accessories for the SRM 66 Splitter Router Mixer and SRIL Smart Digital Remotes. To create a room combining system, the installer only has to connect the RCP 3 (or RCP 4) and 3 (or 4) SR IL's to an SRM 66. The RCP 3 uses Inputs and Outputs 1, 2, & 3 of the SRM 66 for three rooms. The RCP 4 uses Inputs and Outputs 1, 2, 3 & 4 of the SRM 66 for 4 rooms. See the wiring diagrams on the following pages.

New versions of the SRM 66 with firmware 2.20 or later come with preprogrammed room combining systems, so no additional programming is required. Older SRM 66's may be upgraded. If the firmware is 2.0 or later, the unit may be upgraded by replacing one EPROM. If the unit is earlier than 2.0, an EPROM and an EEPROM must be replaced. Contact the Rane factory for upgrade information.

The RCP 3 and RCP 4 panels mount in a standard 19" rack and utilize a single rack space.

### Operation

Since the RCP 3 and RCP 4 panels show a graphical representation of the rooms to be combined, operation is very intuitive. To combine adjacent rooms, the end user simply pushes the button that straddles the desired rooms. Once the button's color becomes *green*, the rooms are *combined*. To uncombine the adjacent rooms, the end user simply re-pushes the button. The button's color now becomes *black*, identifying the room's status as *uncombined*.

Data Sheet-1



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**Manual abstract:**

The RCP 4 uses Inputs and Outputs 1, 2, 3 & 4 of the SRM 66 for 4 rooms. See the wiring diagrams on the following pages. New versions of the SRM 66 with firmware 2.20 or later come with preprogrammed room combining systems, so no additional programming is requiring. Older SRM 66's may be upgraded. If the firmware is 2.0 or later, the unit may be upgraded by replacing one EPROM. If the unit is earlier than 2.0, an EPROM and an EEPROM must be replaced. Contact the Rane factory for upgrade information.

The RCP 3 and RCP 4 panels mount in a standard 19" rack and utilize a single rack space. Operation Since the RCP 3 and RCP 4 panels show a graphical representation of the rooms to be combined, operation is very intuitive. To combine adjacent rooms, the end user simply pushes the button that straddles the desired rooms. Once the button's color becomes green, the rooms are combined. To uncombine the adjacent rooms, the end user simply re-pushes the button. The button's color now becomes black, identifying the room's status as uncombined. Data Sheet-1 RCP 3 and RCP 4 Setup 1. @@2. @@Init Fact RIP Store [SR1] [ n] Recall [ n] 3. Use the Cursor (lower) buttons to move to Init/Fact.

5. Turn the DATA wheel clockwise until the Init field becomes RCP. 6. Press the EXE button. A warning screen appears. 7. Press the EXE button again. Another warning screen appears with prompts. 8. Press the EXE button again (yes this is the 3rd time).

@@The RCP (Room Combining Panel) mode The SRM 66 has 24 Memories. @@Memories 9 through 24 are not preprogrammed.

@@@@@@@@@@@@@@@@@@@@Avoid stripping excess insulation. Inspect wires for nicks that may lead to wire breakage. @@Turn the power to the unit off until all connections are made. @@@@The type of wire required is influenced by your installation and local electrical codes. Rane Corporation does not provide or source cable. Please contact your local retail or wholesale outlet, not the factory. The following is a short list of suitable cable types:

CONSOLIDATED ELECTRONIC WIRE AND CABLE Plenum cable: Unshielded remote control signal cable CAT. #9896 Shielded remote control signal cable CAT.

#9877 or #9852 WEICO WIRE & CABLE INC. Communication and control cable: Multiconductor, unshielded CAT. #7606 ALPHA Communication and control cable: Multiconductor, unshielded CAT. #1175C BELDEN Unshielded remote control signal cable CAT. #88741 Shielded remote control signal cable CAT.

#88723 1 0 1 0 1 1 0 0 1 0 0 0 0 0 2 0 0 1 1 0 0 1 1 0 0 0 0 0 3 0 0 0 0 1 1 1 1 0 0 0 0 0 4 0 0 0 0 0 0 0 0 1 0 0 0 0 5 0 0 0 0 0 0 0 0 0 1 0 0 0 6 0 0 0 0 0 0 0 0 0 0 1 0 0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 1 0 8 0 0 0 0 Mode Result 1 2 3 4 RCP 0 0 0 0 0 0 0 0 1 5 6 7 8 20 Recalled regardless of lower MRP closures 21 22 23 24 Table

1. RCP Binary Control Data Sheet-2 RCP 3 and RCP 4 ROOM COMBINING PANELS Room Combine Panel System Design When designing a Room Combining System, each individual room will have a dedicated single channel mixer, most likely an EQ of some type, an amplifier channel, and of course some loudspeakers. Room Combining Systems work by combining adjacent systems together. When rooms need to be combined, the SRM 66 mixes all of the mixer outputs within the combined zones. In addition, all SR1 L Remote Level Controls within the combined zones will be linked together.

RCP 3 Schematic RCP 4 Schematic 3 2 1 3 2 1 S2A 2P2T J1 S3A 2P2T J1A 6 5 4 3 2 6 5 4 5 4 NC 3 2 1 C 3 2 1 6 5 4 6 5 4 S1A 2P2T 1 S2A 2P2T 3 2 1 3 2 1 S1A 2P2T 6 5 4 3 2 1 Data Sheet-3 RCP 3 and RCP 4 ROOM COMBINING PANELS RCP 3 Room Combining System Wiring RCP 4 Room Combining System Wiring RCP 3 and RCP 4 and SRM 66 rear chassis wiring diagrams. @@@@DOC 105030 PN 12137 .



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