

## **Crestron SRM 66 DSC Demo Program**

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This program demonstrates the ability for a Crestron CNMSX or 2-Series system to control an SRM 66 in DSC mode. From this program all inputs and output levels are controlled including Memory recalls. The SRM 66 is controlled using RS-485. Although Crestron supports RS-485, during testing on a CNMSX-AV it was noticed that RS-485 caused problems with the control system during up/down level control. This problem is associated with the control system not detecting a button release. Until this problem is resolved by Crestron, it is recommended to use the Rane DSC 1 RS-232 to RS-485 converter and operate the Crestron Com Port in RS-232 mode. This problem should be fixed with the 2-Series. All modules include information by pressing F1.

These modules are updated from a previous release to make it easier to include these modules in your program and to allow for multiple input operations at the same time. It now takes less supporting modules to create a program. Multiple inputs can now be controlled at the same time without having to add delays. For easier operation the Rane SRM66 Processor module automatically recalls the SRM 66 parameters when SYS\_ON goes high or when a Memory Recall command is sent to the SRM 66.

Starting operation of this program begins with the Startup subsystem system S-1 (S-1.2 : Analog Initialize). From S-1 the Memory modules are initialized by setting which memory number they will recall. The Memory module is generic, meaning that there is only one module and how you configure it in your program determines which output or memory you are working with. Pressing the System On button (Rane Logo page) sets SYS\_ON high which initializes all Rane modules and recalls memory 1 after a 100 millisecond delay. The delay is used to allow time for all modules to initialize before the memory is recalled.

### **S-5.1 : Rane SRM66 Processor**

This module is used to improve the programming of all the other SRM66 modules by accepting standard SRM 66 commands and placing the command along with its length into a Queue. Before transmitting data to the SRM 66, the control system must first wait for the SRM 66 to transmit a hex FC. When data is requested from the SRM 66 (Request Parameters, Request Group Levels and Request Opstat), the command is placed in front of the data and the received data is sent out SRM\_DATA\$ to the other modules. Up to 15 SRM\$[#] inputs can be selected using the ALT + keys. This allows multiple SRM modules to be connected to the Processor module without worrying about the string outputs from SRM modules colliding.

This module will report error conditions to the Viewport. If there is an error due to invalid data or loss of communication with the Rane device, you will be able to view the error. Another feature of this module is the SYS\_RDY output flag (System Ready). If there is an error condition, this output goes low causing all other Rane modules to stop.

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### **S-2.1-S-2.6 : Rane SRM66 Memory Recall**

These modules are generic for all memory recalls on the SRM 66. Since only one Memory can be called within a time period, the SRM\$ string output of the Memory module can share the same input on the Processor module. The Memory number can be changed during program operation.

This module allows for:

- DSC or Slave type operation. Set RIP\_TYPE to 0 for Slave and 1 for DSC
- Memory Number
- Memory button

### **S-3.1 : Rane SRM66 Group Levels**

This module controls all Group levels. The SRM 66 allows for multiple outputs to be assigned to a Group. This allows for one level to control multiple outputs.

This module allows for:

- Up/Down level control for all inputs.
- A Mute toggle function for all inputs.
- Up/Down level control for its output.
- A Mute toggle function for its output.
- All level controls can be set by Up/Down buttons, by dragging the bar graph of a touchpanel or by an initialization from the program.
- A level feedback to the touchpanel for a bar graph level indicator.

### **S-4.1– S-4.6 : Rane SRM66 Out (1 through 6)**

This is a generic module. Only one module is used for all outputs. Set the OUT\_NUM value (1-6) the output number to control on the SRM 66. All of the SRM 66 matrix input and output levels and are controlled by this module. This module allows for:

- Up/Down level control for all inputs.
- A Mute toggle function for all inputs.
- Up/Down level control for its output.
- A Mute toggle function for its output.
- All level controls can be set by Up/Down buttons, by dragging the bar graph of a touchpanel or by an initialization from the program.
- A level feedback to the touchpanel for a bar graph level indicator.