SERIES 55500

"MICRO-SWITCHER" MICROPROCESSOR CONTROLLER

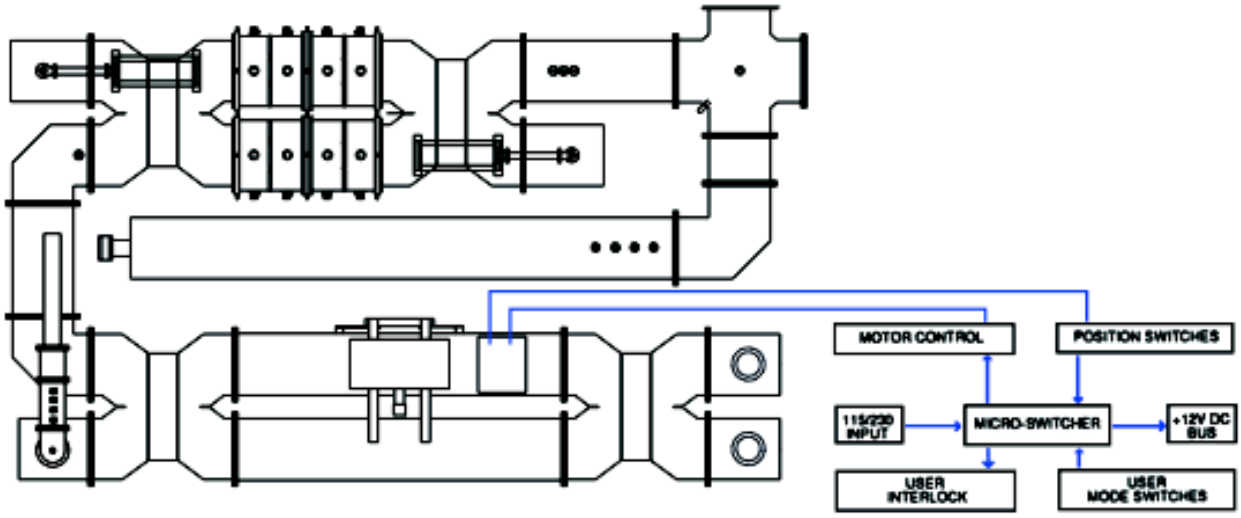
- Local and Remote System Control
- Low Voltage Interfaces Only, No High Voltage User Wiring
- Automatic operating *Mode* Selection
- Direct Hookup to STL Link
- Expandable for Addition of Other Components

MCI's new "Micro-Switcher" microprocessor-based controller provides the broadcaster with the missing link between the passive RF system and efficient station operation. The unit is designed to allow remote and/or local control of switches and switchless combiners, as well as complete RF systems.

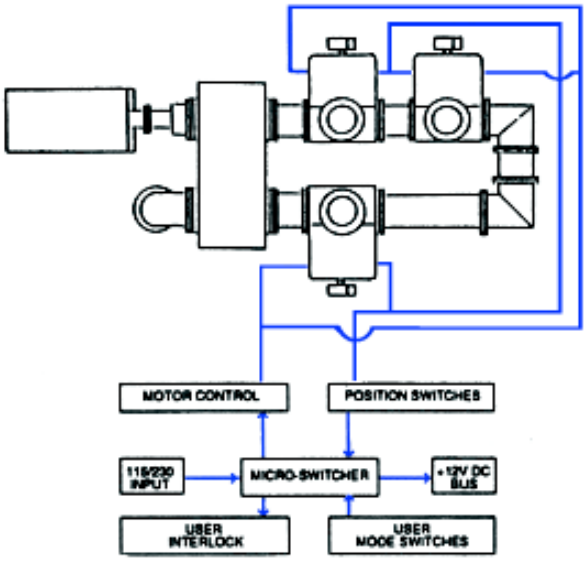
The Controller is based on an EPROM Microprocessor, which monitors the status of up to 12 input variables (switch positions) and, through logic permanently programmed in memory, controls up to twelve output low current relays. These outputs can then directly drive solid state high current relays for motor control or provide system mode status to be used as interlocks, lamp drivers, etc. The use of soft written EPROM memory logic, with a universal circuit configuration, allows the "Micro-Switcher" to be configured at the factory for various control jobs without hardware changes.

The twelve input circuits consist of isolated voltage sensors. Voltages between 5 and 24 volts DC can be used to trigger these inputs. An internal 12 V DC supply can also be used, thus allowing direct interface with various remote control units. The "Micro-Switcher" can optionally be expanded with more input and/or output channels for larger systems.

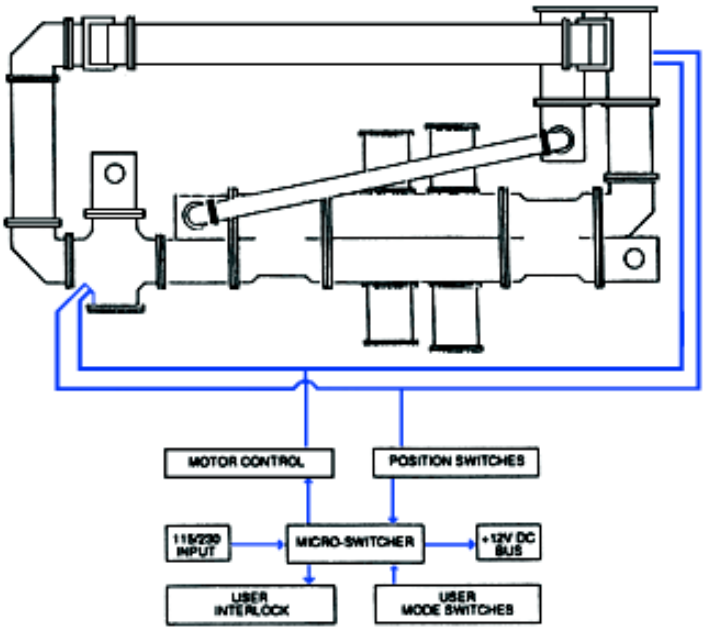
The standard unit consists of: the Controller mounted in a standard "NEMA" type box, wiring for all RF component motors and position switches, connection for 115/230 VAC line, and internal 12V DC power supply. The user must supply necessary wiring and/or control panels for his particular station requirements unless optionally arranged with the factory.



FOUR MODE SWITCHLESS COMBINER



FOUR MODE HARD SWITCH
SWITCHING COMBINER



MULTISWITCH RF SYSTEM

Above drawings are examples of typical layout, and may change without notice.

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