

Professional Product Line MSC-400



The Ultimate in Reliability, Flexibility and Power



Universal Remote Control MSC-400 Narrow Band RF Remotes Trigger Automation of RS-232, IR and Relay Controlled Components and Systems.

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The MSC-400 Master System Controller harnesses the power and tames the complexity of a sophisticated home entertainment system, delivering ease-of-use and maximum enjoyment for the whole family. If you are installing a top-of-the-line component system, odds are your installation professional is specifying an MSC-400 from Universal Remote Control.



Today's sophisticated components require system controllers that do more than merely repeat signals. The MSC-400 controller has the brains to handle even the most elaborate systems. Command sequences, called "macros," allow you to make several devices work together by pressing one button. Instead of separately turning on the TV, turning on the DVD player, changing the input, and turning on the receiver, these commands are chained together in the proper sequence in a macro. The macros are programmed into the MSC-400 and triggered by digital RF (Radio Frequency) from an MX-900, TX-1000, MX-

950 or MX-3000 remote control instead of being haphazardly broadcast in the direction of the device (as with some conventional remote controls).

Once triggered, the commands execute without interruption and without further interaction with the remote. No pointing necessary! As a result, the system responds perfectly to your command, as if an invisible engineer was concealed in the system cabinet, operating the system for you.

The MSC-400 tests the status of the devices it controls and issues commands accordingly. In other words, it finds out whether your TV is "on" or "off" for example. In practice, it's the difference between shouting at someone as you drive past their house compared to calling them on the telephone to make sure they are home.

The operative word is interoperability - the ability to communicate with the hardware from multiple vendors. Furthermore, the MSC-400 controls a wide range of disparate devices including IR (infrared), RS-232 (serial), Relay (contact/voltage triggered) and even USB Keyboard commands. Therefore, it can be used to operate sophisticated home theater equipment, audio components, lighting, Media Center PCs, even motorized screens, drapes and lifts. It also gives you complete assurance that it can control any components you add to your system in the future-it never becomes obsolete.

The MSC-400 takes advantage of the latest technology, including Narrow Band RF. It comes complete with one RFX-250 digital RF receiver which allows your professional installer to completely conceal all of the hardware out of sight and still maintain flawless connection even at distances approaching 100 feet. The combination of

superior technologies, coupled with redundancy, error correction algorithms and advanced engineering, means you will enjoy the most trouble-free system possible.

There are no controls for you to set, no buttons to push—just a series of softly glowing green and blue LEDs that indicate connections, sensor status and the RF environment. With one glance a professional installer can diagnose the system. Think of the MSC-400 as the master system controller that empowers your remote controls to truly fulfill our pledge of *Entertainment Made Simple*.

Software Designed For Professional Installers

Designed to Optimize Programming Flexibility with SPEED MSC Editor software offers extensive control options, RS232 Two Way Diagnosis, IF/ELSE nesting logic and elaborate speed options, like the channel favorites tool, which enables installers to program dozens of numeric keypad macros in seconds. The result, no limits on your imagination when it comes to dreaming up new features to make operation easier and fast, fast programming...

Expands to Control 22 Components

The unique Master/Slave programming options enables installers to combine two MSC-400's into one equipment location with complete integration of all macros in one Master MSC-400. The two MSC-400's are slaved together via the #12 RS-232 Ports on both units. Thus a combined system controls 22 components.

Expand RF Range with 3 RF Receivers

The MSC400 includes one RFX-250 RF Receiver. The receiver is separate from the Master System Controller to optimize freedom from RF Interference and speed installation. Via the MSC-400's RF Inputs, up to three RFX-250's can be connected. Since each RFX-250 typically gives 50-100 feet of range, huge estates can be given robust, reliable RF via a network of wired RF receivers.

Control Screens, Drapes and Lifts

Via the two relay connectors and the convenient 12v power outlet on the rear of the MSC-400, devices that are controlled by applying a 12v Trigger voltage or by contacts opening and closing, can be automated by the MSC-400

Features and Benefits

- Compatible Remotes: MX-810, MX-900, TX-1000, MX-950, MX-980, MX-3000

Specifications

- Special: Advanced ARM7TDMI microprocessor enables the MSC-400 to perform sophisticated logic, with nested IF ELSE statements and tests of sensors and variables.
- Size: 17.25" x 8.5" x 2.5"
- Weight: 77.6 oz.
- Learning Capabilities: Standard frequencies (15kHz to 460kHz)
- Macro Capabilities: Supports up to 32,640 macros of 255 steps in each macro. Since Macros can be nested as one step inside another Macro, there is no realistic limit for macro steps.
- Memory: 32 Megabytes of SDRAM and 64 Megabytes of NAND Flash Memory enable the MSC-400 to support vast, complex configurations.
- RF Freq: 418 MHz
- Range: 50 to 100 feet, depending upon the environment