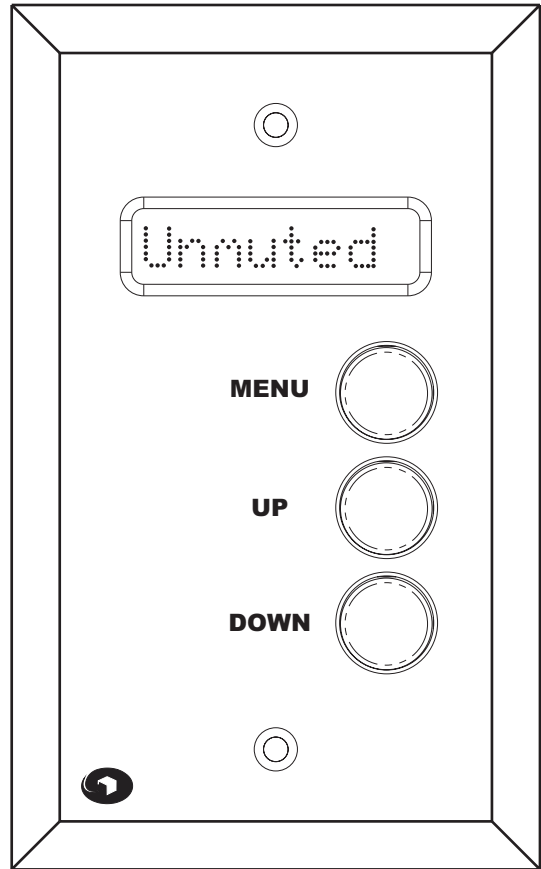## ARC (Adaptive Remote Control)

Versatile, powerful, yet surprisingly simple to use. The Adaptive Remote Control (ARC) is a compact and affordable end user panel that provides an almost unlimited range of remote control functions for SymNet systems. For instance, a combination audio source selector and zone volume control, or a hotel meeting room combining control, or a preset recall for EQ and delay presets in a house of worship. Or all of the above.

The ARC is completely programmable from within SymNet Designer to address any combination of DSP parameters contained within any SymNet system configuration. When you add ARC remote control to your system, programming takes minutes, not hours. There is no need to map control protocols to an expensive third party device. There is no code to write. It can all be done from SymNet Designer's External Control Manager window.

Simple, straightforward, inexpensive. With ARC you create simple control menus which are easily understood by non-technical end-users. Facility operators don't need to become audio system experts to make routine day-to-day adjustments. With SymNet's ARC your cost of installing and supporting a remote controlled DSP system can be less that it every was before.

For more ARC technical details download the ARC Quick Start Guide from www.symetrixaudio.com.

Applications

- Zone volume control
- Audio source selection
- Room combining control
- Configuration recall
- Preset selection
- Mutes / dims

Features

- Mounts in standard single-gang electrical box
- Up to 32 ARCs connect to a SymNet system using standard CAT5 cable
- Fully programmable from SymNet Designer software
- Uses RS-485 to control parameters within a SymNet ring
- Bright green 8 digit alpha-numeric LED display
- Simple 3 button user interface
- Power and control data can be distributed via the 1U ARC-PS power supply (sold separately). Alternatively, in simple installations the ARC can be directly powered from single 9 volt external DC power supply (included with each ARC).
- Software adjustable display brightness
- Lockable with special key combination
- Customizable idle message

◗ **Symetrix**

www.symetrixaudio.com

(425) 778-7728

ARC-PS (ARC Power Supply)

The ARC-PS is a 1 rack space power supply and data router for the SymNet™ ARC. It's designed for easy connection of multiple ARCs in a SymNet system by distributing RS-485 data and power over CAT-5 cable from each of its 8 rear panel RJ-45 jacks. Up to four ARCs can be connected to each of these eight 'home run' branches for a possible maximum total of 32 ARCs per ARC-PS. We say *possible* maximum here because the *actual* maximum is a function of ARC display brightness (which you specify from within SymNet Designer) and cable lengths.

Design Considerations

An ARC's power requirements vary depending on it's supply voltage. At 15V DC (which is the unloaded output voltage of the ARC-PS), it uses approximately 115 mA, while at 6V DC it uses approximately 300 mA maximum. As the voltage goes from 15V DC to 6V DC, the current requirement increases accordingly.

As ARCs are daisy-chained on each of the eight branch outputs as the length of the cable increases, so does the resistive line loss, which lowers the voltage available at each subsequent ARC. The actual power drain on each ARC-PS output can vary substantially depending on the number of ARCs and the distance separating them. In order to assist with system design, Symetrix makes available a Microsoft Excel spreadsheet that can help a system designer determine power requirements based upon cable length, number of ARCs and the power supply to be used. This spreadsheet can be downloaded from the SymNet Technical Support page at www.symetrixaudio.com.

The following table gives some indication of cabling limitations, based on DC power only (the table is not relevant if *only* RS-485 data is distributed via the ARC-PS):

Cable Length Limitations For ARC DC Power Over CAT-5 Cable	
Total cable length (to end of chain)	Number of ARCs in 1 chain (branch)
224-640 ft.	4
276-792 ft.	3
350-1028 ft.	2
486-1396 ft.	1

For more ARC technical details download the ARC-PS Quick Start Guide from www.symetrixaudio.com.

Symetrix

www.symetrixaudio.com

(425) 778-7728