

# *mcs*

*digital systems controller ver. 2.6*



# V7.1 21-6-00 PRW

This equipment has been tested and found to comply with the following Standards for Electromagnetic Compatibility and Electrical Safety:

- Radiated Emissions (EU): EN55013 (1990) Associated Equipment
- RF Immunity (EU): EN50082/1 (1992) RF Immunity, Fast Transients ESD
- Mains Disturbance (EU): EN61000/3/2 (1995)
- Electrical Safety (EU): EN60065 (1993)
- Radiated Emissions (USA): FCC part 15 Class B
- Electrical Safety (USA): UL813/ETL (1996) Commercial Audio Equipment
- Electrical Safety (CAN): UL813/ETLc (1996) Commercial Audio Equipment

## IMPORTANT SAFETY INFORMATION:

- DO NOT REMOVE COVERS.
- NO USER SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
- THIS EQUIPMENT MUST BE GROUNDED.
- IT SHOULD NOT BE NECESSARY TO REMOVE ANY PROTECTIVE GROUND OR SIGNAL CABLE SHIELD CONNECTIONS TO PREVENT GROUND LOOPS.
- ANY SUCH DISCONNECTIONS ARE OUTSIDE THE RECOMMENDED PRACTICE OF McCAULEY SOUND, INC. AND WILL RENDER ANY EMC OR SAFETY CERTIFICATION VOID.

For continued compliance with international EMC legislation ensure that all input and output cables are wired with the cable screen connected to Pin 1 of the XLR connectors. The input XLR Pin 1 is connected to the chassis via a low value capacitor, providing high immunity from ground loops whilst ensuring good EMC performance.

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# Quick Start Reference

Thank you for purchasing the McCauley MCS2.6 digital systems controller. This section outlines a few basic procedures to get advanced users up and running quickly. For complete information on all features and performance issues, please familiarize yourself with the entire McCauley MCS2.6 user's manual.

## AC Power connection

The McCAULEY MCS2.6 has a universal voltage AC Power input. Connect the McCAULEY MCS2.6 to AC Power with the lead supplied. The unit will switch on automatically (there is no separate on/off switch). The display will show the default screen, with the name and program number of the current program. (This will be either the last program recalled before the unit was switched off, or, in the case of a unit with no stored programs, the default: 1 UNUSED)

## Audio connections

Connect the inputs and outputs as desired. All inputs and outputs are electronically balanced, with Pin 2 hot signal (+ve). Do not put any audio through the unit at this time.

## Program settings

If your McCAULEY MCS2.6 has been already configured with a program, you only need to use the RECALL mode to set the parameters to that program:

Press RECALL. Use the Parameter UP/DOWN keys to select the designated program and press RECALL again. Programs marked with the letter 'M' are Master 'OEM' programs and have been designed to match specific sound systems. Some units will be locked to a specific program. In this case most controls will be disabled and the unit will be ready for use.

## Setting up a system

To configure your McCAULEY MCS2.6, the mode of the unit should be decided upon before setting up. Once the Config is set (In the Utilities menu), the crossover points, individual band delays, EQs, and limiter thresholds can be set up. To enter the Utilities menu, press the RIGHT key from the default screen.

## Configuring the McCAULEY MCS2.6

The McCAULEY MCS2.6 can be configured in one of three modes: 2-way 3-channel, 3-way 2-channel or Mono 5-way (MONO). To select the mode you wish to use, enter the Utilities menu, and press the RIGHT key until you reach the Config screen. Use the UP / DOWN (PARAMETER) keys to select the option you wish to use.

**NOTE: When the configuration is changed, the unit will prompt for confirmation of the action. If the ENTER (STORE) key is pressed, then the mode will change, and DEFAULT VALUES WILL BE RESTORED. It is advisable to do a 'Store' before changing modes if you have set up a program.**

## Setting the Crossover Points

Select the band to be edited by pushing the Access UP/DOWN keys to cycle through inputs and outputs. Once the band has been selected, press the LAST / NEXT keys until the first crossover screen, displaying the low-shape filter slope, appears. Select the type of filter shape by using the UP / DOWN (PARAMETER) keys to cycle through the selection. Pushing the RIGHT key from here will move to the Filter Frequency (Low slope) screen. Use the UP / DOWN (PARAMETER) keys to select the frequency. The high slope screen can be accessed after this screen by pushing the RIGHT key.

## Band Delays

Use the LAST / NEXT keys until the delay screen appears. The delay is adjusted by the UP / DOWN (PARAMETER) keys. Default settings for display and adjustment of delay is in meters (m), but can be changed to milliseconds (ms) or feet/inches (ft) in the Delay Units screen in the Utilities menu. Bands can also be linked so multiple outputs can be delayed as one using the Delay Link utility.

## Adding EQ

Use the LAST / NEXT keys to move to the EQ screen. The EQ shape can be edited first. The shape of the EQ can be selected from one of the following by pushing the UP / DOWN (PARAMETER) keys:

- Hi-Shelf with 12dB slope (Hi12)
- Hi-Shelf with 6dB slope (Hi6)
- BELL
- Low-Shelf with 6dB slope (Lo6)
- Low-Shelf with 12dB slope (Lo12).

# Quick Start Reference (cont.)

Pushing the RIGHT key from the EQ shape screen will access the following facilities, in this order:

- Filter Frequency
- Cut/Boost
- Filter Bandwidth (BELL only)

## Setting the limiters

Use the LAST / NEXT keys until the Limit screen appears. Pushing the UP / DOWN (PARAMETER) keys will then change the threshold. The output meters are calibrated to this threshold setting.

## Other Features

- Crossover slopes of 6, 12, 18, 24 or 48dB per octave, filter types Butterworth or Linkwitz-Riley, as appropriate.
- Output limiters on each band (mid-filter).
- High resolution input and output delays up to 630 seconds in 22 microsecond steps.
- Input LED metering, showing signals from -20dB to clip level.
- Output LED metering, showing signals from -20dB to +6dB over limit threshold.
- Front panel mutes.
- Polarity reverse on each output.
- Electronically balanced inputs and outputs.
- MIDI and RS-232 ports on rear panel.

# Installation Issues

## Voltage Setting

The McCAULEY MCS2.6 uses a switched-mode power supply which offers high efficiency and low heat generation. This power supply accepts universal AC Power input voltages in the range 100V AC to 240V AC (nominal), and requires no setting adjustment for AC power voltages in this range. Minimum AC input voltage is 90 Volts, and the maximum is 264 volts. Outside these ranges the unit will not work satisfactorily, if at all. Voltages in excess of the maximum will probably cause damage. Voltages below the minimum will cause complete system shutdown. The flash memory in the unit will preserve all data in the event of a power failure.

## AC Power Fusing

The Green-and-Yellow wire of the mains cord must always be connected to an installation Safety Ground. The Ground is essential for personal safety as well as the correct operation of the system, and is internally connected to all exposed metal surfaces. Any rack framework into which this unit may be mounted is assumed to be connected to the same grounding circuit.

The incoming mains power is fused within the McCAULEY MCS2.6 by the fuse holder mounted on the rear panel. Always replace with an identical 20mm x 5mm 'T' fuse, rated at 1A for continued protection from equipment damage and fire. It is most important for continued safety that this specification is strictly adhered to.

## Mechanical Installation

A vertical rack space of 1U (1 $\frac{3}{4}$ " / 44.5 mm high) is required. Ventilation gaps are unnecessary.

If the McCAULEY MCS2.6 is likely to undergo extreme vibration through extensive road trucking and touring, it is advisable to support the unit at the rear and/or sides to lessen the stress on the front mounting flange. The necessary support can generally be bought ready-built as a rack tray. As with any low-level signal processing electronics, it is best to avoid mounting the unit next to a strong source of magnetic radiation, for example, a high power amplifier, to help keep residual noise levels in the system to a minimum.

## Main Power Connection

**NOTE: There is no On/Off switch for the unit.**

IMPORTANT: The wires in the main lead are color coded in accordance with the following code.

- The wire which is colored Green and Yellow or Green must be connected to the terminal which is marked with the letter 'E' or by the Ground signal or which is colored Green and Yellow or Green.
- The wire which is colored Blue must be connected to the terminal labelled 'N' or colored Black or Blue.
- The wire which is colored Brown must be connected to the terminal labelled 'L' or colored Red or Brown.

## WARNING!

**THIS APPLIANCE MUST BE GROUNDED.**

# Rear Panel Connections

## RS-232 Connector

For connection to a PC for access to one or more McCAULEY MCS2.6's on a MIDI loop, the RS232 connection provides an easy way to upload new software.

## (6) Band Outputs

The McCAULEY MCS2.6 audio outputs are electronically balanced and floating. Transformer balancing is available as a retrofit option.

- Pin 1            Shield/Ground
- Pin 2            Signal Hot (+)
- Pin 3            Signal Cold (-)

## (2) Channel Inputs

The McCAULEY MCS2.6 audio inputs are electronically balanced. Transformer balancing is available as a retrofit option.

- Pin 1            Open circuit
- Pin 2            Signal Hot (+)
- Pin 3            Signal Cold (-)

Use the UP/DOWN access keys to move between Default, Utility, Input and Output menus (Horizontal columns).

Use the RIGHT and LEFT keys to move along each menu.

Use the UP / DOWN (PARAMETER) keys to adjust a parameter. (When adjusting a value, pressing a key once will usually give a small increment / decrement whilst holding a key down will give a larger increment/ decrement).

# Controls & Meters

## ENTER Key (aka STORE)

Program data can be stored to one of 60 internal memory locations using the Store facility. The **ENTER** key also doubles as an **STORE** key for confirmation of some actions. Program data is recalled to the unit from internal memory using the Recall facility.

## PARAMETER Keys

Controller keys for editing parameters displayed on the LCD screen.

## LAST / NEXT & UP / DOWN Keys

Controller keys for moving between screens to access different parameters to edit.

## MUTE Key(s)

Pressing a mute key will toggle the associated band output on and off. The mute LED is illuminated when the output is MUTED. Mute status is saved when a program is stored.

## INPUT Meter

Input signal level referenced to the clip level. Actual signal clipping will occur slightly above the 'clip' indicator.

## MUTE LED(s)

Shows the mute status of the output band.

## OUTPUT Meter

Shows the output of each channel relative to the limiter threshold.

Moving to a new menu may not bring up the first screen shown in each row, as McCAULEY MCS2.6 remembers, and moves you to, the last screen accessed in each menu.

- ENTER (STORE) and Recall are accessed by pressing their respective keys.

After powering up, the McCAULEY MCS2.6 performs internal checks and sets up the audio path before releasing the output mute relays. This takes a few seconds.



# Navigating: Utilities Menu

## Utilities Menu

Pushing the RIGHT key while viewing the default screen will move you into the Utilities menu. The RIGHT and LEFT keys are used to move along the Utilities path, and the UP / DOWN (PARAMETER) keys are used to change the selected parameter.

## Stereo Link

This mode selects whether parameters will be adjusted together or independently on each channel.

- The stereo link pairs in 2-channel 3-way are 1 & 2, 3 & 4 and 5 & 6.
- The stereo link pairs in 3-channel 2-way are 1 & 3, and 4 & 6.

Pushing the UP / DOWN (PARAMETER) keys selects Stereo Link: ON or OFF.

## Delay units

This selects the units used for displaying and adjusting delays. 'ms' represents milliseconds, 'ft' represents feet (and feet and inches for short delays), and 'm' represents metres.

## Lock out

The Lock Out mode prevents access to editing functions on the input and output channels. Since this utility is not password-protected, Lock Out can still be accessed and turned off. This mode is intended only as a precaution against accidental adjustments, and not as a tamper-proof security lock.

## MIDI channel

Here, you can select the MIDI channel that the unit is assigned to (Channels 1 through 16 are available).

## Contrast

This allows you to change the contrast of the LCD display.

## MIDI dump

This utility allows you to dump the current program settings to another McCAULEY MCS2.6, or a MIDI storage device for backup, or for the purpose of synchronising a pair of units for stereo operation. Performing a MIDI dump

will completely overwrite all programs in the receiving device (Rx), including the current program, with those from the sending device (Tx). If you are using the MIDI Dump to transfer data to another McCAULEY MCS2.6 via MIDI ensure that both devices are set to the same MIDI channel, and connect either the MIDI OUT of the Tx device to the MIDI IN of the Rx device. Alternatively, the units can be linked via their RS232 ports.

Each unit must be set to the correct MIDI mode, from a choice of Multi, Master or PCPort on the MIDI mode screen in the Utilities menu. The MIDI mode setting for each device will depend on the protocol used and whether synchronization between the units is required.

Protocol	Tx	Rx	Status
RS232	PCPort	Multi	-
RS232	PCPort	PCPort	-
RS232	Multi	Multi	-
RS232	Multi	PCPort	-
RS232	Master	Multi	Synced
RS232	Master	PCPort	Synced
MIDI	Multi	Master	-
MIDI	Master	Master	Synced

(NOTE: Units connected via MIDI port will only be synchronized after a MIDI dump has been performed. Units connected via RS232 do not require a MIDI dump in order to synchronize, but if a MIDI dump is not performed, each unit will contain different stored programs and current program settings until changes are made to each setting individually on the Tx unit).

The default position for the MIDI dump screen is MIDI DUMP: NO. Use the UP / DOWN (PARAMETER) keys to select YES on the Tx unit, then press ENTER (STORE) at the prompt, to confirm the dump. A percentage complete figure on the Tx screen will show how much data has been transferred. The Rx screen will read 'Warning! Incoming Dump'. When the dump is complete, the Tx screen will default to NO. The Rx screen will display the name of the new current program.

**(NOTE: All parameter edits in all stored programs will be overwritten in any McCAULEY MCS2.6's set to the same MIDI channel. Use MIDI Dump with care!)**

## Delete Program

This facility allows any stored program to be removed from the unit. Use the UP / DOWN (PARAMETER) keys to select the desired program, and press ENTER (STORE) to confirm deletion. **(NOTE: Programs marked 'M' cannot be deleted from USER units)**

# Navigating: Inputs Menu

## INPUTS MENU

There are two inputs available for routing to outputs plus an internal mono sum of inputs A and B, referred to as A+B. This gives the Input Channels:

- A, B, and A+B.

The facilities described in this section are common to all inputs, except EQ, which is not possible on the mono sum A+B signal.

- The first screen in the input menu is the DELAY SCREEN. Pressing the RIGHT key will access the EQ screens.

## Delay

The delay on each input channel can be adjusted individually, in 22 microsecond steps by pushing the UP / DOWN (PARAMETER) keys. (Holding a UP / DOWN (PARAMETER) key down will increment/decrement the amount of delay in larger steps). This delay is typically used to set the delay for delay towers etc., or to stagger the delays between the left and right channels to 'move' sound lobes in an installation.

Delays can be viewed and adjusted in metres (default), feet/inches, or milliseconds.

***NOTE: The maximum delay value is restricted by any delay on an output that is fed by the current input.***

Input delay and output delay for any signal path is limited to 630ms.

To select any of the output bands, press the UP/DOWN keys until the output is shown on the screen.

## EQ

To add EQ to an input, step through the functions on the desired channel using the LAST / NEXT keys until you reach the screen that shows the EQ parameter you wish to edit. (See 'EQ screens' for more details).

# Navigating: Outputs Menu

## OUTPUTS MENU

### Name

The first screen in the Output menu is the Name function. Here you can identify each output with a name suitable to its function, selecting from a list of names in the McCauley MCS2.6, such as SUB, or 2" HORN. Use the UP / DOWN (PARAMETER) keys to select the desired name. If the name selected while stereo is NOT linked begins with L<space> or R<space>, then the L or R will not be displayed when stereo linking is on.

### Source

To change the source input, use the UP / DOWN (PARAMETER) keys until the desired input source is selected.

### Band gain

Adjusts the output gain from -25dB to +4dB using the UP / DOWN (PARAMETER) keys.

### Limiter threshold

The band limiter threshold can be adjusted between -20 to +10dBu in 0.2 dBu steps by pushing the UP / DOWN (PARAMETER) keys to set the desired value to match the sensitivity of the amplifier in use. McCauley Sound recommends setting the limiter thresholds below the amplifier clipping sensitivity by about 2dB. This prevents any transient overshoot driving the amplifier into clip and so damaging your loudspeakers. Threshold setting also determines the output meter sensitivity.

### Delay

The output delays are most often used to electronically align the driver voice coils with the other drivers in the system, so the sound sources are coherent to the listener.

Each increment is only 22 microseconds, which translates in physical terms to a distance of 6.8mm

### Delay link

The Delay Link option allows you to control several band delays with a single adjustment. This means that once all the drivers in a single cabinet have been aligned, the whole cabinet can be delayed relative to the input signal, or another cabinet, by linking these band delays

as one. Any offsets applied before linking will be retained after linking. In the Delay Link screen, Use the UP / DOWN (PARAMETER) keys until the desired linking configuration is shown.

- In mono configuration, 1 will link to 2, 2 will link to 3 etc.
- In 2-channel 3-way configuration, 1 will link to 3, 3 will link to 5, 2 will link to 4 and 4 will link to 6.
- In 3-channel 2-way configuration, 1 will link to 4, 2 will link to 5 and 3 will link to 6.

### Polarity

The polarity invert function allows the phase of an output to be rotated by 180 degrees. Default is uninverted. Pushing the Parameter UP key will invert the polarity of the output. Pushing the Parameter DOWN key will return the polarity of the output to uninverted.

This screen is used to select the filter type/shape for the lower band edge (high-pass) of the current output band. The band edge will be highlighted on the graphic on the screen.

The available filter types are as follows, in this order:

- Butterworth 12dB /Octave
- Linkwitz-Riley 12dB Octave
- Butterworth 18dB / Octave
- Butterworth 24dB / Octave
- Linkwitz-Riley 24dB / Octave
- Butterworth 48dB / Octave
- Linkwitz-Riley 48dB / Octave

Pushing the UP / DOWN (PARAMETER) keys will scroll through the above list.

### Low Xover

The lower edge (high-pass) of the crossover band can be set over a wide frequency range from OUT (no roll off) through 15Hz to 16kHz. Pushing the Parameter UP key will increase the frequency, with OUT as the final step. Pushing the Parameter DOWN key will increase the frequency, to the final clockwise position OFF, which mutes the output.

### High Shape

Selects the Edge filter type and slope as for the higher

# Navigating: Outputs Menu (cont.)

(low-pass) band edge.

## High X-Over

This function works in a similar way to the Low Xover, except that OUT is the last step at the clockwise position.

***NOTE: Pushing the UP / DOWN (PARAMETER) keys will decrease the frequency, to the final clockwise position OUT, which DOES NOT mute the output.EQ***

# Navigating: EQ Menu

To add EQ to an input, step through the functions on the desired channel using the LAST / NEXT keys until you reach the screen that shows the EQ parameter you wish to edit.

If the McCAULEY MCS2.6 is configured for MONO, all EQs will be mono. If configured for 2x2+1 (“stereo”), EQs will be marked as Stereo ‘S’ when STEREO LINK is ON, and the stereo marker will show an ‘S’ next to the EQ number. Available spare EQ filters are also shown.

## Adding a New EQ:

If you press the RIGHT key and the screen does not change, then you have reached the last EQ currently in use. To add an EQ, the cut/boost of the highest EQ must be edited. Another EQ (assuming there are spare EQs) will then be inserted automatically.

**NOTE: The A+B signal is summed after the EQ sections on A and B, so the A+B signal is affected by A and B EQ.**

## EQ Shape

The shape of the EQ can be selected from one of the following by pushing the UP / DOWN (PARAMETER) keys:

- Hi shelving with 6dB slope (Hi6)
- Hi shelving with 12dB slope (Hi12)
- BELL
- Low shelving with 6dB slope (Lo6)
- Low shelving with 12dB slope (Lo12).

## Frequency

Pushing the UP / DOWN (PARAMETER) keys adjusts the EQ frequency. The filter position is shown graphically by the cursor, and the Frequency of EQs can range between 15Hz and 16kHz.

## Cut/Boost

Pushing the Parameter UP key to add boost (+ gain) or DOWN for cut (- gain). Cut/boost is available between +15dB and -15dB, in 0.2dB increments.

## Width (BELL only)

Pushing the Parameter UP key widens the EQ (lower Q), pushing the DOWN key makes the EQ narrower (higher Q). EQ Width is available between 0.05 and 3 Octaves, in 0.05 increments.

# Store, Recall & Security Functions

Storing and Recalling a program can be done at any time using the ENTER (STORE) and RECALL keys on the left hand side of the LCD. The McCAULEY MCS2.6 can hold 60 programs internally. To reset a unit to default values, use the configuration parameter in the Utilities screen.

**NOTE: If the unit is prompting for confirmation of an action at any time, the ENTER (STORE) key is used to conform the action, and pressing it at this point will not access the STORE facility.**

## Storing

Pressing the ENTER (STORE) key will access the Store screen.

Use the LAST / NEXT keys (or push the UP / DOWN (PARAMETER) keys) to move along the program name.

While the Program number is highlighted, pushing the UP / DOWN (PARAMETER) keys will cycle through programs 1-60.

Whilst each of the letters in the Program name are highlighted, pushing the UP / DOWN (PARAMETER) keys will cycle through all available characters.

The last space in the program name is reserved for Program lock. Pushing the UP / DOWN (PARAMETER) keys will turn this on/off. If a program has this flag set to on (so the program name displays a key at the right hand side), a new program, or edited version of the current program, cannot later be stored in this location. This lock can be turned off at any time in order to delete or overwrite the program. If you try to store a program in place of a locked program, the unit will display "PROGRAM LOCKED! ", but will then highlight the key icon, which gives you the option of turning off the lock if you wish to overwrite the existing program.

**NOTE: The edit flag "\*" appears when there are unsaved changes to a program, compared to the initial status of the last recalled/stored program. When a program is stored to internal memory, the edit flag will disappear. Once the program name has been entered, and the Program lock status cleared, pressing the ENTER (STORE) key again will prompt the message "STORE UNLOCKED? ", asking whether the program should be stored with a Program lock on/off. Use the UP / DOWN (PARAMETER) keys to turn the Lock on/off, the default setting being ON. Once the Lock status is set, push the ENTER (STORE) key a final time to commit the program to memory. The display will now default back to the screen displayed before the STORE facility was accessed. To exit from the store screen without storing a program, press the recall button.**

## Recalling

Pressing the RECALL key will access the recall screen. This facility is displayed in the same way as the store facility.

The Parameter UP / DOWN keys are used to select the program number to recall (when highlighted). When the program you wish to recall has been selected, push the RECALL key again to recall the program. The unit will display a message showing that data is being recalled, and will then display the default screen once the recall is complete.

To exit from the recall screen without recalling a program, press the ENTER (STORE) button.

## System Security

Any changes made to an audio system have the potential to be damaging, even if only accidentally made. For this reason several different security systems are built in to the McCAULEY MCS2.6 to protect the speakers. Each of the security levels locks different groups of variables away from accidental or malicious adjustment.

## Program lock

This is a flag that is available for each stored program. A program can be locked when it is stored - the user is prompted when ENTER (STORE) is pressed for the second time. Locking a program in this way is purely to protect the user against accidentally overwriting a stored file. The lock status can be changed by anyone unless the program is OEM locked (see next page). A program locked in this way is indicated by a key symbol.

## Lock mode

The Lock Mode in the Utility Menu can be turned on at any time.

When Lock Mode is set to ON, the user can move around the screens but no variables can be changed except for the LCD screen contrast and, of course, the Lock Mode.

Locking the unit in this way is only to protect the user against other users changing the system setup accidentally or against unauthorized people intentionally changing the system. This status can be changed by anyone who knows how to operate the McCAULEY MCS2.6.

# Specifications

• <b>Dynamic Range</b>	Typically 108dB, unweighted 22Hz to 22kHz
• <b>Noise Floor</b>	-98dBu (default gain set -10dB)
• <b>Frequency Response</b>	$\pm 0.25$ dB, 15Hz-20kHz with filters out
• <b>Distortion (THD)</b>	<0.007%, 20Hz-20kHz @ +10dBu input level
• <b>Inputs</b>	Electronically balanced & floating
• <b>Input Impedance</b>	10kW
• <b>Maximum Input Level</b>	+20dBu, balanced
• <b>Outputs</b>	Electronically balanced & floating
• <b>Maximum Output Level</b>	+10dBu into 600W
• <b>Channel Separation</b>	>80dB, 20Hz-20kHz
• <b>Power Supply</b>	AC Mains 50/60Hz, 90V - 264V
• <b>Power Consumption</b>	<30VA

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