



Sonifex S0 Radio Broadcasting On-Air Mixer USB Serial Command Set As at 6th January 2016

All commands sent to the S0 should be terminated with Carriage Return.

Get serial number

Returns the factory set serial number of the unit

Command to S0 Response from S0

SER: **SER:cccccc**

where c = 7 digit serial number

Get unit ID

Returns the unit identifier specific to the S0 mixer

Command to S0 Response from S0

UID: **UID:S0**

Read firmware version information

Returns the firmware version number

Command to S0 Response from S0

VER: **VER:m.nnn**

where m = major version number
nnn = minor version number

Return all settings to defaults

Resets all settings to factory defaults

Command to S0 Response from S0

DSU: **ACK:**

Get channel control status

Returns the control states for the specified channel

Command to S0 Response from S0

STAC:c **STAC:ss** if the command was successfully completed

ERR if the parameter is out of range

where c = channel identifier (1-9),

ss = channel status (0-3Fh)

channel status = bits 1:0 = input selected (0=input1, 1=input2, 2=input3)
bit 2 = PGM bus state (0=off, 1=on)
bit 3 = REC bus state (0=off, 1=on)
bit 4 = PFL bus state (0=off, 1=on)
bit 5 = fader state (0=down, 1=up)

Get all channels control status

Returns the control states for all channels

Command to S0 Response from S0

STAC:0 **STAC:11_22_33_44_55_66_77_88_99**

where 11 = channel 1 status (0-3Fh)

22 = channel 2 status (0-3Fh)

33 = channel 3 status (0-3Fh)

44 = channel 4 status (0-3Fh)

55 = channel 5 status (0-3Fh)

66 = channel 6 status (0-3Fh)

77 = channel 7 status (0-3Fh)

88 = channel 8 status (0-3Fh)

99 = channel 9 status (0-3Fh)

channel status = bits 1:0 = input selected (0=input1, 1=input2, 2=input3)

bit 2 = PGM bus state (0=off, 1=on)

bit 3 = REC bus state (0=off, 1=on)

bit 4 = PFL bus state (0=off, 1=on)

bit 5 = fader state (0=down, 1=up)

Get START button LED status

Returns the status of the START button on the specified channel

Command to S0 Response from S0

STAS:c **STAS:s** if the command was successfully completed

ERR if the parameter is out of range

where c = channel identifier (1-9)

s = LED state (0-9) 0 = off

1 = red

2 = green

3 = amber

4 = flash red

5 = flash green

6 = flash amber

7 = flash red/green

8 = flash red/amber

9 = flash green/amber

Select input on a channel

Sets the input on the specified channel

Command to S0 Response from S0

RCIP:ci **ACK** if the command was successfully completed

ERR if the command could not be completed or the parameters are out of range

where c = channel identifier (1-9)

i = input selection (1-3)

Select PGM on a channel

Enables/disables PGM on the specified channel

Command to S0 Response from S0

RCPG:cp **ACK** if the command was successfully completed

ERR if the command could not be completed or the parameters are out of range

where c = channel identifier (1-9)

p = PGM control (0=off, 1=on)

Select REC on a channel

Enables/disables REC on the specified channel

Command to S0 Response from S0

RCRE:cr **ACK** if the command was successfully completed
 ERR if the command could not be completed or the parameters are out of range

where c = channel identifier (1-9)
 r = REC control (0=off, 1=on)

Select PFL on a channel

Enables/disables PFL on the specified channel

Command to S0 Response from S0

RCPF:cp **ACK** if the command was successfully completed
 ERR if the command could not be completed or the parameters are out of range

where c = channel identifier (1-9)
 p = PFL control (0=off, 1=on)

Select START on a channel (Line Hold for channel 9 if input 1 is selected)

Emulates START button press on the specified channel

Command to S0 Response from S0

RCST:cs **ACK** if the command was successfully completed
 ERR if the command could not be completed or the parameters are out of range

where c = channel identifier (1-9)
 s = START control (0=off, 1=on)

Set START button LED states

Sets the state of the START button on the specified channel. Note: Only valid when the Remote Mode for the current input on the specified channel is set to USB Serial Control.

Command to S0 Response from S0

RCSL:cs **ACK** if the command was successfully completed
 ERR if the command could not be completed or the parameters are out of range

where c = channel identifier (1-9)
 s = LED state (0-9) 0 = off
 1 = red
 2 = green
 3 = amber
 4 = flash red
 5 = flash green
 6 = flash amber
 7 = flash red/green
 8 = flash red/amber
 9 = flash green/amber

Set the monitor/headphone selection to PGM

Routes the PGM bus to the monitor and headphone outputs

Command to S0 Response from S0

RMPG: **ACK**

Set the monitor/headphone selection to REC

Routes the REC bus to the monitor and headphone outputs

Command to S0 Response from S0

RMRE: **ACK**

Set the monitor/headphone selection to EXT1

Routes the EXT1 input to the monitor and headphone outputs

Command to S0 Response from S0

RMBC: **ACK**

Select AUTO PFL for the monitor output

Enables/disables AUTO PFL on the monitor output

Command to S0 Response from S0

RMAP:a **ACK** if the command was successfully completed

ERR if the command could not be completed or the parameters are out of range

where a = AUTO PFL control (0=off, 1=on)

Select AUTO PFL for the presenter headphone output

Enables/disables AUTO PFL on the presenters headphones

Command to S0 Response from S0

RPAP:a **ACK** if the command was successfully completed

ERR if the command could not be completed or the parameters are out of range

where a = AUTO PFL control (0=off, 1=on)

Select SPLIT PFL for the presenter headphone output

Enables/disables SPLIT PFL on the presenters headphones

Command to S0 Response from S0

RPSP:s **ACK** if the command was successfully completed

ERR if the command could not be completed or the parameters are out of range

where s = SPLIT PFL control (0=off, 1=on)

Select AUTO PFL for the guest headphone output

Enables/disables AUTO PFL on the guests headphones

Command to S0 Response from S0

RGAP:a **ACK** if the command was successfully completed

ERR if the command could not be completed or the parameters are out of range

where a = AUTO PFL control (0=off, 1=on)

Select TALKBACK for the guest headphone output

Enables/disables TALKBACK on the guests headphones

Command to S0 Response from S0

RTBK:t **ACK** if the command was successfully completed

ERR if the command could not be completed or the parameters are out of range

where t = TALKBACK control (0=off, 1=on)

Control Notifications

Sent from the S0 when the associated control changes state.

Start button press notification

Signal channels' start button has been pressed

Command from S0

#1z

where z = channel number (1-9)

Fader open change notification

Signal channels' fader has been moved to off-bottom

Command from S0

#2z

where z = channel number (1-9)

Fader close notification

Signal channels' fader has been closed

Command from S0

#3z

where z = channel number (1-9)

Input 1 selected notification

Signal channels' 1st input has been selected

Command from S0

#4z

where z = channel number (1-9)

Input 2 selected notification

Signal channels' 2nd input has been selected

Command from S0

#5z

where z = channel number (1-9)

Input 3 selected notification

Signal channels' 3rd input has been selected

Command from S0

#6z

where z = channel number (1-9)

PGM selected notification

Signal channels' PGM has been selected

Command from S0

#7z

where z = channel number (1-9)

PGM deselected notification

Signal channels' PGM has been deselected

Command from S0

#8z

where z = channel number (1-9)

REC selected notification

Signal channels' REC has been selected
Command from S0

#9z

where z = channel number (1-9)

REC deselected notification

Signal channels' REC has been deselected
Command from S0

#az

where z = channel number (1-9)

PFL selected notification

Signal channels' PFL has been selected
Command from S0

#bz

where z = channel number (1-9)

PFL deselected notification

Signal channels' PFL has been deselected
Command from S0

#cz

where z = channel number (1-9)

Mic Live inactive notification

Signal mic live light control is inactive
Command from S0

#d1

Mic Live active notification

Signal mic live light control is active
Command from S0

#d2