

DAC9

RS232 COMMAND REFERENCE

The DAC9 can be controlled via an RS-232 interface. The connector is a female DB9 with Pin 2 being the TX out of the DAC9, Pin 3 RX in to the DAC9, and Pin 5 ground. The serial port settings are 9600 baud, 8 data bits, 1 stop bit, no parity, and no flow control.

All commands are shown below. The unit echoes back all character as they are received. A command line is terminated with a line feed (0x0A or 10 decimal). Carriage returns (0x0D or 13 decimal) may be present but are ignored. Commands that take variable text or numerical values as a parameter are shown as <value>. The optional entries are described in the column ACTION DESCRIPTION. Commands ending in a question mark are status inquiries; these will return the current value of the requested item.

If a command is accepted, the response will be ACK --> along with either an echo of the request or the current value.

If a command is not accepted, the response will be NACK --> along with an echo of the request.

All responses are terminated with carriage return and linefeed (0x0D 0x0A).

The response may be multi-line for some status requests.

After the POWER ON command is issued the unit will be in warm up. During this time the unit will be muted. If a MUTE OFF command is received during this time the response will be ACK -- > MUTE ON. The DAC9 will remember the MUTE OFF command until the warm up time is over, at that time it will transition to the Mute Off state.

When the unit is in the POWER OFF mode some commands will return NACK -> as they cannot be performed when the unit is off.

As the input buffer is small, commands should only be sent one at a time.

The following table details all commands:

RS-232 COMMAND	ACTION DESCRIPTION
POWER ON	Turns the unit on
POWER OFF	Turns the unit off
POWER TOGGLE	Toggles the power state
MUTE ON	Turns the mute on
MUTE OFF	Turns the mute off
MUTE TOGGLE	Toggles the mute state
INVERT ON	Turns on the invert mode
INVERT OFF	Turns the invert mode off
INVERT TOGGLE	Toggles the invert state
DISPLAY UP	Increases the display brightness by one level
DISPLAY DOWN	Decreases the display brightness by one level
DISPLAY SET <value>	Sets the display brightness to specified level (1 to 7)
DISPLAY DIM	Set the display brightness level to 2
DISPLAY NORMAL	Set the display brightness level to 4
INPUT UP	Moves one step forward through the input loop
INPUT DOWN	Moves one step backward through the input loop
INPUT SET <value>	Directly select a specified input (AES, RCA, BNC, TOS, USB)
FILTER SLOW	Sets the output filter to slow
FILTER FAST	Sets the output filter to fast
UPSAMPLE ON	Turns on the upsampling feature
UPSAMPLE OFF	Turns off the upsampling feature
AUTOSHUTDOWN ON <value>	Turns on the automatic shutdown timer for the specified number of hours (1 to 8)
AUTOSHUTDOWN OFF	Turns off the automatic shutdown timer
MENU	Press the menu button
OPTION	Press the option button
ENTER	Press the enter button
SET FACTORY DEFAULTS	Restores system settings to the factory default values
POWER ?	Returns the power state
MUTE ?	Returns the mute state
INVERT ?	Returns the invert state
DISPLAY ?	Returns the display brightness setting
INPUT ?	Returns the current input selection
FILTER ?	Returns the current filter setting
UPSAMPLE ?	Returns the upsample state
AUTOSHUTDOWN ?	Returns the current autosutdown setting
VERSION ?	Returns the software version number
TUBE HOURS ?	Returns the number of run hours on the tubes

REV	AUTH	Date	Description	ECN
A	KWC	14 APR 2018	Initial Release	N/A