

General Purpose Commands

ID?	Read Identity (returns in the form 0001 M1.0 for Minisonic 0001 V6.5 for LA100)
TR	Total Reset
RS	Partial Reset (leaves sequence data stored)
RT	Reset timeout (for power down)
D0-3	Return single binary data frame (type 0 to 3). Also cancels continuous syncLink.
D8	Send continuous binary data stream (SyncLink)

Oscillator Codes

FCn	Set Output Frequency by binary code (100 = 1kHz) (0 = mute) 4Hz to 40kHz
LCn	Set Output Level by binary code (0 = mute 200 = 0dB) 0.5dB steps -95 to +18dB (See tables for full code listings) NB this also sets the internal 'levres' value, used to restore level after crosstalk measurements for example. Single channel commands leave this set.
LLn	Set Output Level L chan only (codes as above) ('levsav' internal restore value not affected)
LRn	Set Output Level R chan only (codes as above) ('levsav' internal restore value not affected)

Measurement Codes

ICn	Set input Channel (1=left 2=right 0=both) can be shortened to IC for both
FNn	Set measurement Function: 0= Phase (later), Level 2=Noise 3=Crosstalk 4=Distortion 5=PPM 6=Seq 7=Frequency
F?	Read input Frequency in Hz (BCD ie binary coded decimal)
L?	Read input Level in dB (ASCII decimal - CR terminated) (true value inc range)
LF	Flag a single slow frequency measurement cycle (for frequencies below 1kHz)
P?	Read Phase in degrees (ASCII decimal - CR terminated)
R?	Read range (single binary byte, 0 to 120, 100 gives 0dBnom 108 gives +8dB nom etc)
RNg	Set level range (g is gain in dB) (single binary byte, nominal value 100 sets 0dB)
NL	Normalise (as on unit) - grabs Offset level (L chan) and switches to Relative Reading.
RL	Set read Relative Reading. RL0 restores absolute levels ***** not in LA100
O?	Read Offset value (returns two bytes, integer dB and 1/256ths fraction dB, 100 nominal)
SQn	Run a stereo test sequence. Send SQ0 to send the currently set Sequence which will normally have just been set up using up to five SGx commands
S?n	Read Sweep graph for register r (1 = left chan 2 = right) (Lindos format)
SGx	Set Segment to send x is the ASCII segment character, ASCII 0 resets all segments To set up a sequence send SG0 followed by SGT, SGU, SGR, SGN for example
SR?	Read Sequence results (Lindos format) (other commands implemented provisionally: OSn,m sets offset, E? returns error code (0))

Notes:

Oscillator codes allow 1/12th octave frequencies, see list for codes and exact frequencies.

Channels can be independently set or muted using the LVn (set both) and LRn (set right) commands.

SQn runs a Sequence of up to four Segments in predetermined order, independantly of the order in which they are set up. All sequences are stereo, obviating the need for sequence channel selection. For mono use, ignore the R channel (FSK detection is always on the L channel).

SR? returns sequence results with graph handles. Use the S?n command to get graph data for each graph in turn. The Minisonic only supports two graphs (n = 1 for L chan sweep, 2 for R chan). Later units may support larger values of n to send multiple results, using the high nibble of n to indicate the result file and the low nibble to specify the graph within that file.

RL sets relative level, as on the Minisonic, returning relative levels for all measurements.