

GN	71 78 13 13	Local	Resume running at beginning of current cycle, after dumping syringe contents to waste, or return to local control.
AB	65 66 13 13	Local	Abort current method, dump syringe and return to local control
Q	81 13 13 13	Remote	Echo "ok", useful for synchronizing with Cobra, works to establish communications initially, and does no harm if communications are already working
<ESC>	27 13 13 13	Remote	Return cobra to local keypad control, and continue method if one was interrupted (Same effect as GO)

For both Rn and Gn, the Cobra will transmit "Run Complete" CR when the method is complete. The system will wait for a keypad press, or any character over the serial link, and then return control to the Cobra. A remote program will have to re-send Q to get back to control. All commands should be terminated with a Carriage Return (binary 13). All method #'s (n) should be binary, not ASCII value, i.e. 77 82 49 01 for MR1, except the Rn command, in which the n can be either the ASCII equivalent, or the binary value, i.e. 82 01 13 13 and 82 49 13 13 will both start Run 1.

10.3 Cobra L/S Command Details

To program a method remotely from a host PC:

- 1) PC sends a Q to get sampler's attention
- 2) PC waits for ok, indicating Cobra is ready
- 3) PC sends "MWn" CR, to indicate method is to be programmed.
- 4) PC waits for ok CR, indicating the Cobra is ready
- 5) PC sends the following binary string, all word (2 byte) values:

<u>Byte#</u>	<u>#Bytes</u>	<u>Content</u>	<u>Allowed Range</u>
(PC code must enforce these limits)			
0	2	First Vial	1-120
2	2	Last Vial	1-120
4	2	Num of repeats/sample	1-100
6	2	# of rinse ones	0-20
8	2	# of rinse twos	0-20
10	2	rinse volume	0-100%
12	2	Rinse fill rate	0-100%
14	2	Standard Volume	0-100%
16	2	Sample Volume	0-100%
18	2	Num of solvent dumps/inject	0-10
20	2	Num of solv. flushes/inject	0-100