



Running Start/Update in MultiLogger and Now No Data?

Frequently Asked Question #4

This problem occurs in CR10X, CR510's and the CR23X due to the dynamic sizing of Program Memory based on the downloaded program as a result of running the Start operation in MultiLogger. A program of up to 16,380 bytes is allowed in these modules, however this memory is part of the overall memory system which means that when Program Memory is re-sized the entire contents of memory, data included, is erased.

With older Control Modules such as the CR10, CR500 and CR21 this does not occur because Program Memory was fixed at 1986 bytes. (This can be increased with a minor hardware modification and new EPROM)

Please note the following guidelines for dealing with this problem.

- *First, ALWAYS COLLECT DATA BEFORE RUNNING THE START/UPDATE FUNCTION!*
- *Second, size the Program Memory manually so that reformatting of memory is very unlikely. Set the Program Memory to a size that is sufficient to encompass the range of program memory required.*

This is done by communicating with the Control Module directly using the Terminal Emulation. Click the Terminal tab in MultiLogger, then click in the terminal window to activate the connection to the Control Module.

Press <ENTER> a few times to verify the connection with the Module, an asterisk, *, should be returned for each <ENTER> that is pressed.

The following table describes the commands and returned prompts to manually allocate Program Memory.

Type	Returned	Description
7H<ENTER>	>	Greater than prompt, waiting for MODE request.
*	MODE	Waiting for MODE selection.
A	MODE A 01:0700	Memory allocation mode. First parameter displayed as indicated by "01", value of parameter shown to the right, "0700". This is Input Storage allocation, default is 700 locations. Changing this value will erase all data memory!
<ENTER>	02:1400	Intermediate Storage allocation, default is 1400 locations. Changing this value will erase all data memory!
<ENTER>	03:0	Final Storage Area 2 allocation, default is 0. Changing this value will erase all data memory!
<ENTER>	04:58192	Final Storage Area 1 allocation, as determined by available memory. You cannot alter this value.
<ENTER>	05:+3345.0	Program Memory allocation. Note the size of the currently loaded program. The maximum size is 16,380 but generally an allocation of 8192 is sufficient for all cases. If the value shown is within 2000 bytes of 8192 then set to a correspondingly higher value. Changing this value will erase all data memory!
8192<ENTER>	06:+268.0	Remaining bytes of Program Memory. You cannot alter this value.
*	MODE	Waiting for MODE selection.
0	LOG 1	Compile the program and restart logging.

In subsequent Start operations the Program Memory required will be less than the setting that has been manually entered so Program Memory, and data memory, will NOT be re-allocated, i.e. loss of data will be averted.