

EX

Type:

System Command

Syntax:

EX [(mode)]

Description:

Software reset. Resets the controller as if it were being powered up.

When performing an EX on the command line you will see the controller start up information that provides details of your controller configuration.

On EX the following actions occur:

- The global numbered ([VR](#)) variables remain in memory.
- The base axis array is reset to 0,1,2... on all processes
- Axis errors are cleared
- Watchdog is set [OFF](#)
- Programs may be run depending on [POWER_UP](#) and [RUNTYPE](#) settings
- ALL axis parameters are reset.

EX may be included in a program. This can be useful following a run time error. Care must be taken to ensure it is safe to restart the program.

When running Motion Perfect executing an EX command is not allowed. The same effect as an EX can be obtained by using "Reset the controller..." under the "Controller" menu in Motion Perfect. To simply re-start the programs, use the [AUTORUN](#) command.

Parameter:

Physical controllers

mode	Description
0 or none	Software resets the controller and maintains communications.
1	Software resets the controller and communications.

When you use EX(1) you will have to remake the Ethernet connection

PC-MCAT

mode	Description
0 or none	Software restarts only the real-time firmware, leaving the Windows service running which maintains communications.
1	Software stops the real-time firmware and the Windows service.
2	Software stops the real-time firmware, stops all the Windows service, and stops Windows.
3	Software stops the real-time firmware, stops all the Windows service, and restarts Windows.
4	Software stops the real-time firmware and tells Windows service to restart it. This is as closest approximation to the physical controller EX(1).

See Also:

[AUTORUN](#), [DATUM\(0\)](#), [UNIT_CLEAR](#), [ETHERCAT\(0, 0\)](#)