



Control Software offers a wide range of industrial control functionality for your AC 800C, AC 800M, and Advant Controller 250 industrial controllers from ABB. From binary logic to advanced regulatory control. From discrete process signals to high-level process objects.

The software is license-free when used in stand-alone controllers but requires an AC 800M/C Control Software Integration license when run in an Industrial IT system containing e.g. Operate IT Process Portal. The license cost depends on the number of Control License Points (CLPs) in the host system.

Control Software is managed with **Control Builder M**, fully Windows 2000-integrated software. There are three variants of it; *Control Builder Basic*, *Control Builder Standard* and *Control Builder Professional*. They are upwards compatible, which means that a project, configured in a limited variant can always be edited in a more capable one.

Control Builder Basic is intended for small projects, while Control Builder Standard is suitable for creating structured applications, solution libraries and multi-user applications. Control Builder Professional, finally, provides full functionality, including Operate^{IT} Process Portal integration.

Basic specifications

Control Builder M Basic, Standard, Professional
Controllers supported: AC 800M, AC 800C, & Advant Controller 250

Programming languages:
 Function Block Diagram, Structured Text, Ladder Diagram, Sequential Function Chart and Instruction List according to IEC 61131-3 plus Control Modules

System requirements (Control Builder M)

Computer:	
Minimum:	Pentium 166 Mhz,
Recommended:	Pentium II 350 MHz or faster
Operating system:	Windows 2000 Professional English or Swedish versions
Other software:	Internet Explorer 5.5, MS Word 2000, Acrobat Reader 5.0 or later
Internal memory:	
Minimum:	64 MB of RAM
Recommended:	128 MB
Hard disk space:	
Minimum:	50 MB of free space (200 MB for a complete installation)
Drive:	local or networked CD-ROM drive
Controller communication:	By Ethernet or RS-232C
Screen:	
Minimum:	800x600 dots, 32768 colors
Recommended:	1280x1024 dots, 32768 colors
Pointing device:	Mouse, preferably 3-button
Keyboard:	Standard PC keyboard

Control Software functionality

Control Software includes an extensive library of control elements, ranging from simple AND gates to powerful adaptive PID controllers, predefined and ready-to-use process objects and control functions e.g. for motors, valves and INSUM switchgear. It also supports the development of user-defined control elements.

Control Software and its engineering tools support all five of the IEC61131-3 programming languages (function block diagram, structured text, ladder diagram, sequential function chart and instruction list) plus ABB's own high-powered Control Module language.

Control Builder functionality

Function	Basic	Standard	Professional
Create/change libraries:	No	Yes	Yes
Create/change/use Control Modules:	No	No	Yes
No. of controllers:	1	8	32
No. of applications:	1	8	256
No. of applications per controller:	1	1	8
No. of programs per application:	3	64	64
No. of tasks per controller:	3	16	16
Code distrib. to multiple controllers:	No	Yes	Yes
Multi-user support:	No	Yes	Yes
Source code control*:	Official only	Official/unofficial	Official/unofficial
Operate ^{IT} Process Portal integration:	No	No	Yes
Log in and user privileges:	No	No	Yes

* A function for safe source-code handling when the code is shared among several programming stations.

I/O supported

At the time of writing, Control Software supports ABB's S100, S200, S200L, S800, S800L, and S900 I/O systems, as well as any PROFIBUS-DP-compliant I/O system described by GSD file. See separate documentation.



Automation Technologies

SE-721 59 Vasteras, Sweden
Phone: +46 (0) 21342000
Fax: +46 (0) 21137845
www.abb.com/controlsystems
e-mail: processautomation@se.abb.com

Automation Technologies

29801 Euclid Avenue
Wickliffe, Ohio 44092, USA
Phone: +1 440 585 8500
Fax: +1 440 585 8756
www.abb.com/controlsystems
e-mail: industrialitsolutions@us.abb.com

Automation Technologies

Dudenstraße 44-46
D-68167 Mannheim, Germany
Phone: +49 (0) 1805 266776
Fax: +49 (0) 1805 776329
www.abb.de/controlsystems
e-mail: marketing.control-products@de.abb.com

3BSE021360R0301

Copyright © 2004 ABB. All rights reserved.

Specifications subject to change without notice. Pictures, schematics and other graphics contained herein are published for illustration purposes only and do not represent product configurations or functionality. User documentation accompanying the product is the exclusive source for functionality descriptions.

The Industrial^{IT} wordmark and all above-mentioned product names to the same format are registered or pending trademarks of ABB.