



**Control<sup>IT</sup> stands for smooth integration of process information on the basis of well-known standards.**

The control software for AC 800F controller is scalable in terms of functionality and extent, allowing you to create applications that perfectly meet your requirements. The controller provides various innovative automation functions combining well-proven standards with most advanced technologies: decentralized I/O modules with intelligent field devices on the fieldbus, and conventional processing with highly efficient fieldbus management.

## Description

The Control IT software together with Control Builder F Software is the platform for configuring and commissioning of industrial processes.

The Control IT software is in unit with Control Builder F.

For every controller is at least one control software license necessary.

The Control IT software license is offered in two variants

- Basic
- Advanced

and distinguish in the function scope.

The license functionality can be adapted to the customer's needs for every controller, and the number of I/O can be extended up to a maximum of 2000 I/O.

Within a project all controllers must have the same control software license. This means that all controller within a project either have to run with control software Basic or control software Advanced.

One Control IT software license

- enables specific function block libraries for one controller
- enables in Control Builder F a specific number of I/O signals which may be used in the controller/process station configuration.

## Functions

### Analog value processing

Input and output conversion, linearization, delay and deadtime filter, averaging/extreme value, determination in time, setpoint adjustment, counter with analog input, time scheduler

### Digital value processing

Digital output, monostable, switch-on and switch-off delay, pulse/time counter, bi-directional counter, pushbutton

### Loop control

Continuous, step, on/off, three-position, ratio controller, tune

### Logic control

Individual drive functions, sequence control, dosing circuit

### Logic functions

Logic processing, averaging/extreme value, determination, comparator, binary switch, multiplexer, converter (data type & code), flip-flop, edge detection, string blocks, summer-time switching via radio controlled clock

### Monitoring

Analog, binary, event, audible alarm control, connection monitoring

### Acquisition

Acquisition, disturbance course acquisition, trend acquisition

### Arithmetic functions

Basic arithmetic, numerical, logarithmic, trigonometric, analog and time limitation

### Fieldbus and Communication

Modbus (Master/Slave), Profibus, Foundation Fieldbus, Interbus, send and receive blocks for system-wide communication

### Batch phase functions

PhaseX (FPX), Phase Logic Interface (PLI)

### Control IT Software Basic

The Control IT software Basic license includes the following function block libraries:

- IEC 61131-3, digital and analog value processing
- controllers (without self-tuning)
- integration of fieldbuses (Profibus, Foundation Fieldbus)
- DigiVis support

The control software Basic can be extended with the following functions:

- Serial package (Modbus Master, Modbus Slave, Sartorius scales interface, Protronic coupling)
- Tune (PID self-tuning)
- Sequence of Events (with Rack I/O)
- Maestro-UX Coupling
- Batch Function Block Library (PLI, FPX)
- Interbus
- Telecontrol Library (IEC 60870-5)
- DMS-API

### Control IT Software, additional packages

- Open Communication Package (DDE- and OPC-Server)
- Trend Server

### Control IT Software Advanced

The Control IT software Advanced license includes all of the Basic license features as well as the following additional function block libraries:

- Operate IT B Support
- Serial package (Modbus Master, Modbus Slave, Sartorius scales interface, Protronic coupling)
- Tune (PID self-tuning)
- Sequence of Events (with Rack I/O)
- Maestro-UX Coupling

In addition the Control IT software Advanced may be expanded by the following functions:

- Batch Function Block Library (PLI, FPX)
- Interbus
- Telecontrol Library (IEC 60870-5)
- DMS-API

### Scope of Delivery

- Authorization Disk (License)

Have to be ordered separately:

- Control Builder F license
- Control IT AC 800F Setup CD-ROM
- Control IT, Documentation CD-ROM
- Printed documentation



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