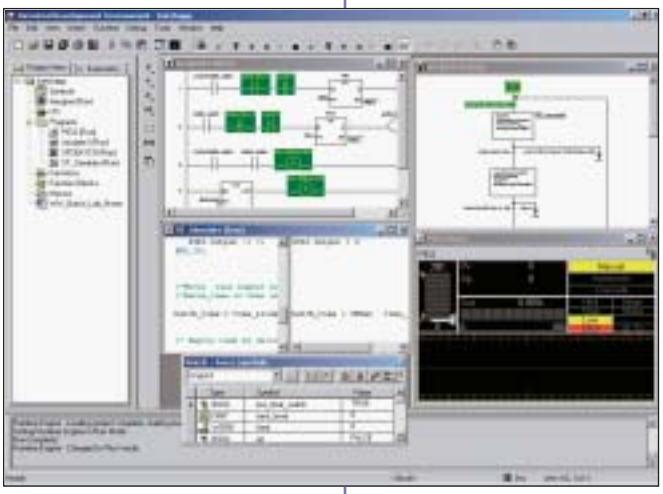
InControl™ 7.11

Real-Time Control System

PRODUCT POSITION

Wonderware® InControl™7.11 is a real-time application engine that fits a wide range of manufacturing processes that require high speed, deterministic processing of data and logic. Running on an open system, InControl provides a robust control package that provides both connectivity and sophisticated logic execution capabilities for handling complex scripting, discrete and process applications.



InControl 7.11 expands your control capabilities with support for Microsoft® Windows NT® and Windows 2000®-based run-time engines; ActiveX-based FactoryObjects and custom user controls. InControl's IEC61131-3 compliant editors, wide range of I/O interfaces and integrated OPC and SuiteLink™ communications allow you to tailor a solution to meet your exact application requirements.

InControl 7.11 applications can be developed using user-friendly Relay Ladder Logic (RLL), Sequential Function Chart (SFC) and Structured Text (ST) editors. Additionally InControl provides interfaces to a wide variety of open I/O systems, SuiteLink and OPC servers.

When connected to Wonderware® FactorySuite®, InControl adds advanced operational and real-time information capabilities to FactorySuite. With its modular design, plus its OPC and SuiteLink communications, InControl offers a degree of flexibility and scalability that is unmatched by any other PLC or soft logic package.

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PRODUCT DATASHEET

InControl™7.11 is a Windows NT®–based, real-time, open architecture control system

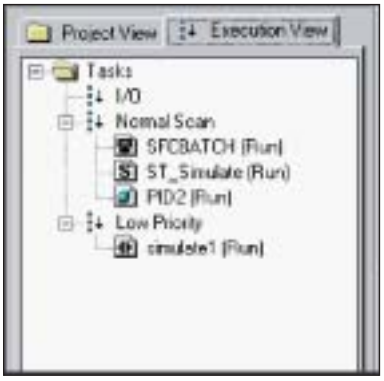
APPLICATIONS

InControl provides an integrated control and scripting solution that replaces proprietary control systems with open architecture NT-based control, providing a lower cost control architecture with integrated connectivity, powerful processing capability, and easy expandability.

OEM's can especially benefit from the connectivity to flexible communication interfaces and multiple I/O systems, flexible editors and ActiveX capabilities. Process applications benefit from distributed runtime engines; powerful PID control, simulation tools and high I/O count. For machine control applications InControl provides embeddable, real-time discrete control and flexible ActiveX technology.

Metrics

InControl 7.11 offers unparalleled performance using Microsoft NT and Windows 2000 real-time capabilities. InControl can execute a PID loop in less than 10 microseconds; or 1000 lines of logic in a ST or RLL program in less than 1 millisecond on most standard PCs.



FEATURES AND BENEFITS

Microsoft Windows 2000 and NT-based

InControl 7.11 is based on native Microsoft NT, taking full advantage of all the real-time and extensibility capabilities NT provides. InControl supports distributed control via DCOM, with peer-to-peer communication built into the product.

Open Architecture

InControl 7.11 can be used on any platform that supports the Microsoft Windows NT and Windows 2000 operating systems, including flat panel industrial workstations, SMP servers and open industrial controllers.

Factory Objects

PID Factory Object, Lead/Lag, Derivative, Analog Alarm, Deadtime Delay, Integrator, Limiter, Ratio Station, ICAccess for VB interfaces and Serial Port V.2

Flexible Communications

Supports a wide range of network communications including SuiteLink client/SuiteLink server and OPC client/OPC server

I/O support

Supports popular I/O interfaces for Open Device Network Interfaces as well as legacy I/O systems.

International Standards

Compliant with IEC 61131-3 standards, OPC standards and Open Device Network Interface standards.

Online Features

Supports a variety of online monitoring and editing capabilities including Monitor Process status, Force I/O, Online Editing, Power Flow Highlighting, Simulation and Debugging.

Extensible ActiveX Factory Object Support

Create your own custom algorithms in Visual Basic or C++ and call them from InControl as an ActiveX object. Now InControl supports events in ActiveX objects and can execute ActiveX objects asynchronously.

Updated Editors

User selectable fonts, improved printing and debugging tools.

ST Text Editor

ST editor provides stand-alone scripting and now has enhanced on-line debug tool set.

User Definable Functions and Function Blocks

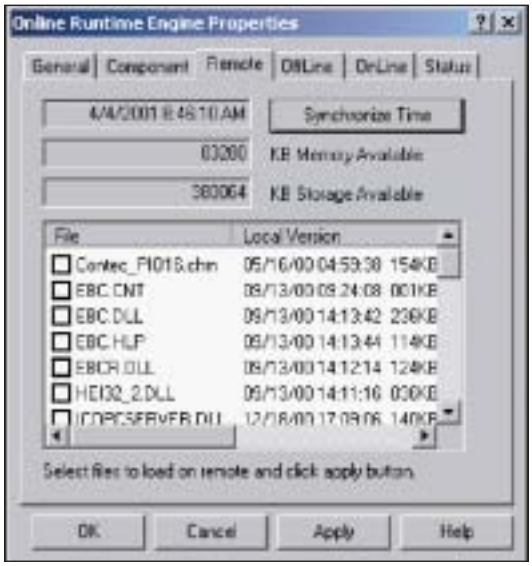
Create Functions and user defined Function Blocks in RLL or ST languages. These Functions or Function Blocks can be instantiated in RLL and ST programs.

Enhanced Runtime Engine

More reliable than ever.

Distributed Control Capabilities

Connect to any remote Runtime engine, edit and download programs and monitor status all from a central development station.



Simulation Capabilities

Provides tools for simulation of real world processes to debug and optimize applications.

Watch Window

Available to use as a stand alone application to monitor variables and debug InControl applications.

Integrated Tag Browser

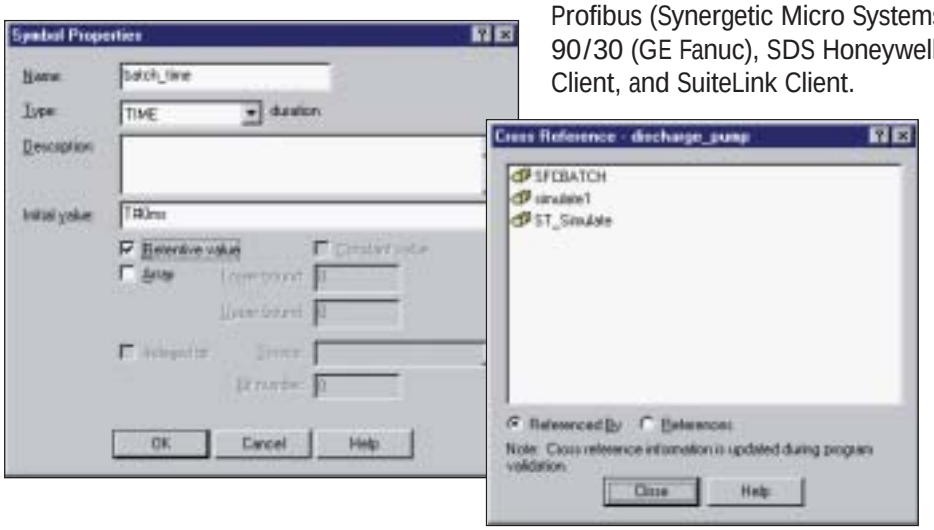
One-time tag definition for FactorySuite, tag export/import.

Peer to Peer Connectivity

Integrated OPC and SuiteLink client and server capability to connect to any InTouch server or to another InControl application.

No Tag Limits

InControl has no license imposed tag limits.



INTEGRATION WITH WONDERWARE FACTORYSUITE COMPONENTS

InControl 7.11 is tightly integrated with Wonderware® InTouch® and the rest of FactorySuite, providing unprecedented power and productivity to the industrial world. InControl 7.11 is a core technology component of the FactorySuite. It is the control component that executes real-time control logic, connects to factory floor I/O, provides simulation capabilities and is a data server to FactorySuite. It is a scripting engine for InTouch, phase logic engine for InBatch™, and data server for IndustrialSQL Server™ or SuiteVoyager™.

The integration begins with installation. It goes on to a common tagname browser where, with remote referencing from InTouch, you can define a single database base in InControl and easily reference any or all tags from InTouch. SuiteLink and OPC client and server connectivity provides seamless inter-suite communication. Finally, we have a powerful set of tools in InTouch that lets you easily control InControl's runtime engine and provide direct access to InControl programs, projects and tagnames. InControl's real-time logic execution capability compliments FactorySuite by offering a complete set of tools to develop server-based scripting applications for large or thinclient-based FactorySuite projects.

CONNECTIVITY

Serial OCX, DeviceNet (S-S Technologies), Profibus (S-S Technologies), Optomux (Opto 22), Ethernet (Automation Direct), Open Modbus (Master Functionality over TCP/IP, ASCII and RTU), InterBus-S G4 (Phoenix Contact), AB1784KTX (Allen Bradley), GE Genius (GE), Profibus (Synergetic Micro Systems), GE 90/30 (GE Fanuc), SDS Honeywell, OPC Client, and SuiteLink Client.

SYSTEM REQUIREMENTS

For Windows 2000 and NT Development and run-time systems: Pentium processor-based system (Pentium 233 MHz and up processors recommended), Supports SMP systems, with 32 MB RAM (64 MB recommended if running concurrently with InTouch), requires 50 MB of hard disk space (typical installation) and 25 MB (compact installation). Runtime only installation requires less than two MB hard disk space allowing InControl runtimes to be installed on embedded applications using flash memory

Operating Systems Supported

For both the development environment and runtime engine, InControl 7.11 will execute on Windows NT 4.0 SP6a and Windows 2000 (version 1).

Contact Wonderware or your local Distributor for information about software products for industrial automation.
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PN 15-0008 Rev. 6/02