

# INDUSTRIAL DESIGN SOLUTIONS



Your Solutions Partner for  
Industrial Control

IDS has the expertise to provide your plant with a total process control solution. Our goal is to be your preferred solution for all your process control needs.

Our staff is dedicated to providing quality solutions customized to meet your requirements and schedule.

Your plant's control system will be designed to operate safely and efficiently, over the entire operating range. From complex control loops and safety systems, to custom graphical interfaces, data collection and analysis, simulation, or network security, IDS has the expertise to meet your control needs.

Our staff has the experience to provide your plant with a total process control solution.

- Bumpless transfer between all modes of operation
- Intelligent alarming
- Safety interlocks and overrides
- Automatic transmitter selection
- Enhanced Operator graphics

These are just some of the standards used to provide a well designed control solution. We are always striving to utilize the latest technology to provide state-of-the-art processes.

Our experience and expertise in designing and implementing control systems has allowed us to create valued relationships with our customers. These relationships are based on solid and safe designs, a commitment to schedule, and a

culture of joint ownership with the customer for a working and complete system.

IDS has the expertise to provide your plant with a total process control solution. Our goal is to be your preferred solution for all your process control needs.

In addition, we have the capabilities to provide project front-end engineering (FEL), project feasibility studies, develop scope of work documents, write a detailed DCS upgrade specification document and more.

Through partnerships with several key companies, IDS can offer additional services.

- Turn Key Solutions
- Electrical Distribution Design
- Installation and Construction Packages
- Energy Management and Dynamic Network Analysis
- Network Security & Cyber Protection
- Software Development



## OUR SERVICES

At IDS, we are dedicated to providing quality solutions customized to meet your requirements and schedule.



### TOTAL PROCESS CONTROL SOLUTIONS

Our staff has the experience to provide your plant with a total process control solution. We are always striving to utilize the latest technology to provide state-of-the-art processes.



### ENGINEERING SOLUTIONS

We offer Engineering & Installation for all the process control solutions we develop.

Plant Improvement Systems:

- System Optimization
- Migration, Upgrades and Conversion
- Information Technology Support



### ADDITIONAL SERVICES

Through partnerships with several key companies, we also offer additional services:

- Turn Key Solutions
- Electrical Distribution Design
- Installation and Construction Packages
- Energy Management and Dynamic Network Analysis
- IT Network Analysis
- Software Development

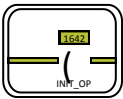
## SOFTWARE SOLUTIONS

Committed to finding effective ways to maximize control system productivity, IDS has developed several software tools for process control.



### TOOLS FOR HONEYWELL EXPERION PKS®

The latest software solution from IDS, Process Studio is a query tool that integrates Honeywell Experion PKS data from Process points, SCADA points, and HMI graphics. This tool gives Experion system users and supervisors a fast view of parameters throughout the control system. IDS has also developed tools specific to Honeywell's Control Builder for process points, maximizing engineering productivity performing tasks during system development and commissioning.



### TOOLS FOR HONEYWELL LOGIC MANAGER®

View multiple lines of ladder logic on the screen at once with this Honeywell LM platform ladder logic viewer. If you are looking for a convenient way to view, search, and print ladder logic, this tool is for you.



### TOOLS FOR HONEYWELL TDC3000®

Power tools for searching, viewing, comparing, and editing points created for Honeywell TDC3000® systems. Includes import and export functionality for converting between Microsoft Access® databases and EB files.



### TOOLS FOR PLANT SIMULATIONS

Quickly build analog and digital OPC-based simulations using the IDS OPC Simulator. Designed to enable engineers to rapidly build medium fidelity simulations that speed the logic testing and verification process. Integrates easily with control systems using OPC data transfer technology.

## PROCESS CONTROL CAPABILITIES

We can provide your company with a wide variety of services:

### HARDWARE PLATFORMS

- Honeywell Systems
  - TPN, TPS/GUS, Experion
  - LCN/TPN Product Line
  - Process Devices (C200, C300, HC900, HPM/APM/PM, LM, AMC/MFC/PIU)
  - Serial Interfaces (EPLCG/SI/Modbus/AB)
  - Integration Node (LCN/FTE)
  - S9000 / MASx
- History Packages
  - Honeywell Uniformance PHD/HM/Experion
  - OSIsoft PI
- Allen Bradley (Process Logix, Control Logix, SLC, PLC)
- Cisco Routers, Switches and Firewalls
- RTU (GE/Harris, QEI, DAQ, Redac, IEDs)
- Electrical Control (Mech Relay, Multilin, SEL, Cooper, Profibus, Devicenet)

### SOFTWARE PLATFORMS

- Honeywell Systems
  - Control Builder / Quick Builder / HC900
  - Graphics (US, GUS, GUSPro, Plantscape, Experion, Display Builder, WebHMI)
  - Experion ERDB and EMDB
  - NCF / HM / UCN / Highway / FTE / TPS Domain
  - Control Language (CL)
  - HPM Builder (PAB)
  - FSC Navigator / LM Loader
  - HCI / OPC / PHD Interfaces
- HMI (PI ProcessBook / Rsview / Panelview / Red Lion / OSI Openview / GE iFix)
- Data Interfaces: XML, HCI, OPC, A/B DH+, Modbus, DDE, ICCP, DNP, Redac, Osisoft PI, FTP, serial and Ethernet.
- Microsoft Office, Oracle, AutoCAD, Veritas, Visual Basic, Microsoft Project, .NET

### CONSULTING

- Front-end Engineering (FEL)
- Feasibility Studies
- Develop Scope of Work Documents
- Develop DCS Upgrade Specification Documents
- Process Control and Tuning

### CONTROL ENGINEERING

- Boiler Control Systems
- Burner Management Systems
- Motor Control Systems
- Turbine Control Systems
- Selective Catalytic Reductions (SCR) Systems
- Scrubber Systems (FGD)
- Baghouse and Fabric Filter
- Advance Control Systems
- Performance Monitoring Systems
- Performance Calculation Systems
- Continuous Emissions Monitoring Systems (CEMS)
- Station Electrical Systems
- Sootblowing Systems
- Graphics—Operator Interfaces
- Unit Load Dispatch Interfaces
- 3rd Party Interfaces
- Alarm Management
- Energy Management and SCADA
- Operator, Technician, and Engineer Training

### HARDWARE DESIGN

- Wiring Design
- I/O Partitioning
- Database Management
- Field Instrumentation
- Generator Auto Synchronization

## OUR BUSINESS

At IDS, we are dedicated to providing quality solutions customized to meet your requirements and schedule. We have a wide variety of talented professionals with years of industry experience, specializing in electric utilities.

### BUSINESS PHILOSOPHY

Our mission is to act as partners with our customers and make their goals our own. We accept ownership side-by-side with our customers to work towards a complete solution.

#### Involve the Operators

– For graphics development, control design, and alarms. They have the expertise to make the project successful.

#### One Project Team from Start to Finish

– Insures continuity from the project kickoff to project closeout.

#### Keep the Whole Problem in Focus

– Not just the letter of contract... in the end the customer needs a working system.

#### Follow-up Support

– Provide long-term maintainable solutions.

#### Training Comes in Many Forms

– Involve the engineers, technicians and operators in the design, testing, and commissioning of the project.

#### Design the System as if it were Yours

– Keeping in mind what it takes to support, troubleshoot, and maintain the system.

#### Use Standards Where Applicable and Customize Where Necessary

– Standards keep costs and training down where it makes sense.

### STANDARDS EXPERIENCE

- NFPA (member)
- ISA (member)
- OPC (Foundation Member)
- ISO 9000,
- IEEE,
- NEC
- SAMA

### INDUSTRY EXPERIENCE

- Power Plants / Utilities
  - Coal, Gas, and Oil Fired Boilers
  - CE & B&W Once-Through
  - B&W Cyclone
  - Combined Cycle Units
  - Gas Turbines
  - Renewable Energy
  - Fluidized Bed Boilers
  - Stoker Fired Boilers
- Industrial Boilers
- Manufacturing Processes
- SCADA and Energy Management for Generation, Transmission, and Distribution Systems

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## INDUSTRY RELATIONSHIPS

Some of the partners and clients we have worked with are listed below.



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## FOR MORE INFORMATION

For brochures, company literature, or even a price quote, contact George Rohde at the Phoenix Office.

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