

Engineering with **Imagination**

AppSolutions
13423 Willow Breeze Lane
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www.app-s.com



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- ✓ **E**xperience
- ✓ **T**rust
- ✓ **C**reativity
- ✓ **V**alue
- ✓ **F**ocus
- ✓ **C**ustomer Satisfaction

Six core values.

To some they are just words. To us they are everything. When it comes to designing, specifying, and installing control and data acquisition systems, think no further than AppSolutions. Our team is ready. Let us show you how we can improve your operation today.

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Experience



AppSolutions is a leading industry solutions provider. Our team of dedicated professionals has skill sets in designing, specifying and installing process and machine control systems. We maintain a vendor neutral approach. We listen to our customers and design solutions around their needs.



Skill Sets



- Site walk through
- Preliminary analysis and studies
- Hardware and software specifications
- Layout plans and cost estimates
- AutoCAD-generated drawings
- Custom panel design and fabrication
- Custom applications using Visual Basic and .Net
- Custom database applications
- Creation of operation manuals
- Customized training

Products



- Programmable automation controllers
- Programmable logic controllers
- Industrial computers and monitors
- HMI and SCADA products
- Motors and drive systems
- Process control systems
- Temperature sensors and controls
- Heaters and heater parts
- Web enabled controls



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The Convergence family of products by AppSolutions is the next generation of monitoring systems ready to make the difference, saving time and valuable resources.

AppVIEW

AppVIEW is designed to monitor the health of an entire facility. AppVIEW integrates auxiliary systems, such as HVAC and compressors with the manufacturing process. When problems occur in these systems, AppVIEW notifies and reports condition status. Plant personnel can be notified locally, as well as via email and SMS, so corrective action can be taken before the process is affected. Reports can also be generated which will reflect all operating conditions in the plant, not just the manufacturing line. AppVIEW resides on the Convergence Master and is accessible remotely through a Java enabled web browser.

AppOEE

OEE, Overall Equipment Effectiveness, is the latest advancement in manufacturing efficiency measurement. Advanced does not mean complicated. AppOEE evaluates production and loss data, while generating the desired OEE reports, improving the manufacturing process. When integrated with other Convergence applications, AppOEE can automatically gather the necessary data with minimal operator input. AppOEE then generates the desired management reports. AppOEE resides on the Convergence Master, making it accessible

AppSCADA

AppSCADA is designed to be fully customizable with any control system, old or new. With a full array of drivers and capabilities, AppSCADA can improve virtually any process control system by providing advanced data storage and monitoring capabilities, control and recipe management, along with intuitive graphics.



- ✓ Experience
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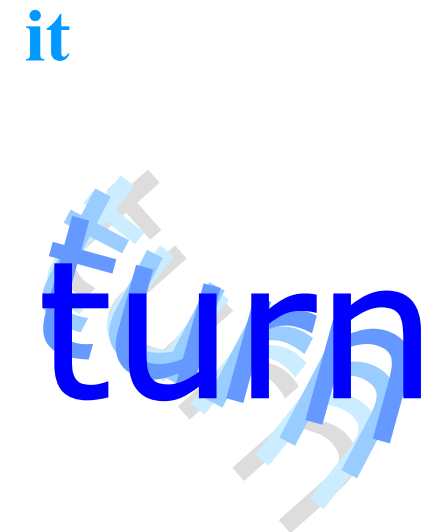
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if
a
motor
makes



(call the drive control experts)

Experience



AppSolutions is the complete solution for drive control replacements, upgrades and new installations. Our experienced professionals have installed and commissioned thousands of drives and hundreds of drive control systems. The key to a successful drive system is an understanding of the process. With our extensive background in process automation and control, a successful project is assured.



AppSolutions is a Parker SSD Integrator and Distributor

Skill Sets



Complete drive system design

Drive system programming

Communication interfacing

Onsite and shop service

Individual "Drive in a Box" fabrication

Complete coordinated multi-drive system fabrication

In-House testing

Onsite commissioning

AppSolutions integrates all major drive manufacturer's products.

Products



Individual Chassis Drive Sales

Coordinated Drive Systems

"Drive in a Box"

Drive System Upgrades



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Applications



Extrusion and Auxiliaries

Calendering

Synthetic fibers

Coating

Winders

Slitters

Textile Ranges

Conveyors

Material Handling

Pump Systems

Multi-axis Servo

Turn to AppSolutions . . .
. . . for many other industrial control solutions

Extrusion Control
Automation and Process Control
Utility and auxiliary monitoring
OEE and data acquisition applications
Process to business system interfacing
Industrial networking and control
Furnace and dryer controls
. . . .and many more!

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ex·tru·sion
ex·perts

Experience



AppSolutions is an extrusion control expert.
Period.

With over one hundred years of combined experience in plastics, rubber and foam extrusion, we understand the unique needs of the extrusion industry. This understanding results in a custom, state-of-the-art control system that is easy to operate and reliable.



Photo courtesy Berstorf

Skill Sets



Temperature control

Pressure control

Drive control systems

Graphical HMI systems

SCADA systems

Melt pump controls

Screen changer controls

Auxiliary system interfacing

Communications interfacing

AutoCAD generated drawings

Panel fabrication

Products



Single loop discreet controllers

PLC-based process control

Multi-loop process control platforms

DIN-rail mount controllers

PLC-based HMI

Computer-based SCADA software

AC and DC drives

Sensors and heaters

Packaged control retrofit solutions



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Applications



Synthetic fibers and nonwovens
Single and twin-screw compounding

Foam

Rubber

Cast film

Blown film

Tubing and pipe

Profile extrusion

Wire and cable

Recycling

Extrusion coating



AppConvert
by AppSolutions

AppConvert is a packaged control solution that makes extruder control retrofits easy and affordable. It is pre-assembled and pre-configured for easy installation and quick startup. Get rid of those obsolete controls.

Convert them!

Turn to **AppSolutions** . .
. . . for many other industrial control solutions

Utility and auxiliary monitoring
OEE and data acquisition applications
Process to business system interfacing
Industrial networking and control
Servo applications
Furnace and dryer controls
. . . .and many more!



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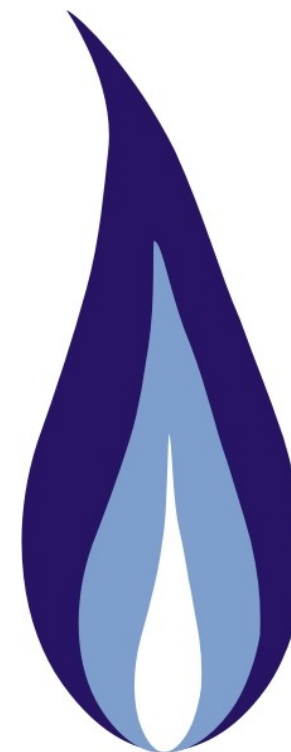
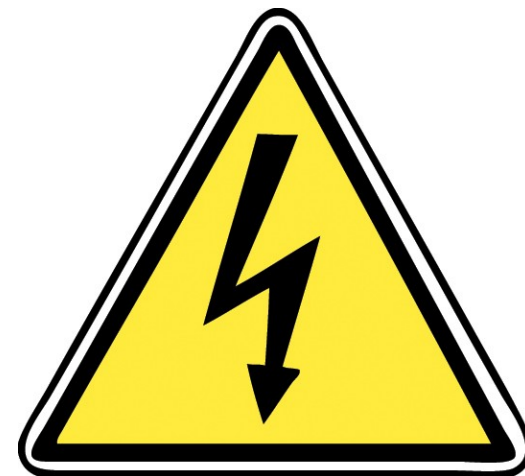
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Utility Monitoring

By **AppSolutions**

Why?



Utility costs typically make up a major part of a product's cost. Yet in most cases, they are not captured independently on a per-product basis. Furthermore, accurate monitoring of utility costs can yield substantial potential savings by identifying areas of waste and inefficiency.



How?



AppSolutions utilizes state-of-the-art sensors to measure electrical and natural gas usage on a plant-wide or line-by-line basis.

Electrical sensors can be "dumb" (sensor only) or also incorporate local displays.

Vortex-type gas flow meters are employed for versatility, accuracy and ease of installation.

All sensors can be connected wirelessly to a central computer, providing robust, error-free interfacing and minimal installation expense.

AppSolutions can provide mechanical, as well as electrical, installation.

Apply!



Gathering utility data is pointless unless it is utilized in a meaningful way.

Measured values from the sensors are transmitted to the central monitoring computer. They are displayed and also stored in a main database, where the cost is calculated. If the data are being acquired on a line-by-line basis, the cost values can be applied to that particular line. In addition, the cost data can be accumulated and stored on a product basis by identifying the start and end point of the product run. This can be accomplished by several means, such as manual operator input, bar code, RFID, etc.

Because all data are stored in a SQL database, generating reports is as easy as a SQL query to the database. Cost data can be retrieved in whatever report format desired by multiple users.



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