Product Focus: Programmable Logic Controllers

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Step 2. Environmental Issues
Determine how many analog devices your system will have and the type of devices. This information is directly linked to the amount of analog I/O that will be necessary for your system. You will need to choose a controller that supports your I/O count requirements and has modules that support your signal types.

Why this is important:
Certain controllers may not support your signal types, or you may require specialty modules that support your signal types. Working with any new products you are researching will save you time and money.

Step 3. Discrete Devices
Determine how many discrete devices your system will have. The number and type of devices your system will include is directly linked to the amount of digital I/O that will be necessary for your system. You will need to choose a controller that supports your I/O count requirements and has modules that support your signal types.

Why this is important:
Knowing your system I/O requirements will help you determine which CPU to choose and whether or not you will need to purchase additional specialty modules.

Step 4. Analog Devices
Determine how many analog devices your system will have and which types (voltage, current, temperature, signal types, etc.) are needed. It is very important to consider as discrete and discrete devices, the number and type of devices you will need to control. Will your system include distributed I/O that will be necessary for your system. You will need to choose a controller that supports your I/O count requirements and has modules that support your signal types.

Why this is important:
Knowing your system I/O requirements will help you determine which CPU to choose and whether or not you will need to purchase additional specialty modules.

Step 5. Specialty Modules or Features
Determine whether your system will require any specialty features or functions. Will your system require any specific amount of program memory? How many discrete devices will your system require? How many devices will your system require? How many devices will your system require? How many devices will your system require?

Why this is important:
Certain controllers may not support every type of instruction or function that your system may require. Certain controllers may not support every type of instruction or function that your system may require.

Step 6. CPU Requirements
Determine the type of CPU you will need. How much memory will your system require? Will your system require more memory than the CPU is capable of providing? How many instructions do you need? How many instructions do you need? How many instructions do you need?

Why this is important:
Knowing your system CPU requirements will help you determine which CPU to choose and whether or not you will need to purchase additional specialty modules.

Step 7. I/O Locations
I/O locations vary significantly from controller to controller. For example, built-in PID functions are much easier to configure and use with certain controllers. For example, built-in PID functions are much easier to configure and use with certain controllers.

Why this is important:
Knowing your system CPU requirements will help you determine which CPU to choose and whether or not you will need to purchase additional specialty modules.

Step 8. Communications
Determine your programming requirements. Does your system require any other communications requirements? Does your system require any other communications requirements?

Why this is important:
Knowing your system CPU requirements will help you determine which CPU to choose and whether or not you will need to purchase additional specialty modules.

Step 9. Programming
Determine your programming requirements. Does your system require any other programming requirements? Does your system require any other programming requirements?

Why this is important:
Knowing your system CPU requirements will help you determine which CPU to choose and whether or not you will need to purchase additional specialty modules.

As an electrical engineering decision, it’s always best to put it on your system be installed from scratch or are there existing products already installed? The rest of your system will need to be compatible with new components. Why this is important:
Certain controllers may not be compatible with existing products. Why this is important:
Certain controllers may not be compatible with existing products.
Choosing the Right PLC for the Job

Once you have your control system specifications, it’s time to decide which PLC is right for the job. PLC suppliers are abundant in today’s industrial automation market. With so many choices it can often get confusing as to which PLC will work the best for your particular application. At AutomationDirect, we try to serve the controller needs of as many industrial automation professionals as possible. Therefore, we offer many PLC choices each intended to fulfill a particular need or purpose.

The CLICK PLC family is ideal for everyday applications. The compact size and simplified programming make CLICK great for small systems and beginner projects.

CLICK PLCs
Basic PLC Unit starting at $69

The CLICK PLC family is ideal for everyday applications. The compact size and simplified programming make CLICK great for small systems and beginner projects.

Do-more PLCs starting at $199

The Do-more PLC family has one of the most advanced instruction sets in the market and many other tools/features to help you tackle complex applications.

Productivity Series CPU starting at $169

The Productivity family of PLCs was designed for those who prefer the custom memory allocation that tag name based controllers provide and to provide a low-cost alternative for those familiar with Allen-Bradley controllers.

Free software and FREE Tech support - for life!

#1 Value in Automation!

www.AutomationDirect.com 1-800-633-0405
**Simple Control**

The CLICK micro-brick PLC (starting at just $69.00 with FREE easy-to-use programming software) is by far the most practical PLC for the smallest of applications and the perfect tool for beginners.

CLICK PLCs are perfect for:

- Beginner projects
- Easy relay replacement
- Small applications including:
  - Conveyor VFD speed control
  - Tank level control with pump switching
  - Lighting control
  - Simple pneumatic control
  - Simple PLC: starter with 21 available instructions
  - Easily paired with C-more micro HMI

**CLICK PLC STRONG POINTS:**

- Extreme value
- Small size
- Simplicity with low-learning curve
- Straightforward programming with 21 available instructions
- Easily paired with C-more micro HMI

**Simple instruction set**

<table>
<thead>
<tr>
<th>Instruction</th>
<th>Description</th>
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<tr>
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<td>Contact (NO)</td>
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<tr>
<td>Contact</td>
<td>Contact (NC)</td>
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<tr>
<td>Edge Contact</td>
<td>Edge Contact</td>
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<td>Compare</td>
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<td>Coil</td>
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<tr>
<td>Drum</td>
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<td>Call</td>
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<td>Return</td>
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<tr>
<td>Receive</td>
<td>Receive</td>
</tr>
<tr>
<td>Send</td>
<td>Send</td>
</tr>
</tbody>
</table>

**CLICK PLCs**

- www.clickplcs.com
-CLICK PLC STRONG POINTS:
  - Extreme value
  - Small size
  - Simplicity with low-learning curve
  - Straightforward programming with 21 available instructions
  - Easily paired with C-more micro HMI

**CLICK PLCs**

- www.AutomationDirect.com 1-800-633-0405
- Simple instruction set
- Simple pneumatics
- Lighting
- Labeling
- Filling
- Simple Control
Advanced Control (fixed memory addressing)

The Do-more! PLC control technology was developed to efficiently tackle both straightforward and complex applications. This PLC series with its numerous hardware and software features (including the FREE simulator) provides an extensive toolbox to help you master the most demanding projects.

Do more with advanced applications including:

- Waste water treatment
- Stepper/servo control systems
- Simple to mid-range motion control
- Electrical switchgear applications
- HVAC/Chiller tower control
- Precision valve control
- Object positioning
- Building automation
- Bar code systems
- Data logging

Do-more PLCs STRONG POINTS:

- Motion
- Built-in high speed I/O
- PWM outputs
- Email with attachments
- Robust Instruction set
- Data file management

Do-more! BRX PLC platform

The latest Do-more! BRX platform, built exclusively for the Do-more! engine, is available in four form factors with up to 36 I/O points built in. Stand-alone PLC units starting at $199 Expandable I/O starting at $39

Do-more! H2 PLC platform

Using the DirectLOGIC industry-proven I/O technology, this PLC series is incredibly powerful and an incredible bargain. CPU starting at $299

Do-more! T1H PLC platform

The compact T1H series control system combines the modular and space-saving package of our Terminator I/O line with a highly capable Do-more! CPU. CPU starting at $359

Do-more! PLCS

- PLC simulator
- Safety
- User-defined structures
- Embedded HELP
- Data file management

www.do-more.com

www.AutomationDirect.com 1-800-633-0405
If you like Allen-Bradley PLCs but hate the cost associated with them, then Productivity is your choice for affordable tag name-based control. Productivity allows you to tackle many of the same complex applications as Do-more but with a different programming approach geared for those who prefer tag name addressing or those in need of A-B relief.

Great for complex applications including:

- Waste water treatment
- Stepper/servo control systems
- Precision package tracking and sorting
- Bottling applications
- HVAC /chiller tower control
- Car wash systems
- Industrial oven control
- Distribution systems
- Communication-heavy or diverse applications

**Productivity PLCs STRONG POINTS:**

- Tag name memory
- Large I/O counts
- Hot-swappable I/O modules
- Local data arrays (for SCA/DA/ANI)
- Scalable PLC size
- Web server/mobile access
- Ethernet (RJ-45) built-in communication option
- SAE J1708/1939 (identical copies)

**CPU only $169**

- 5 built-in comm ports: (1) plug-and-play USB programming port, (1) general purpose Ethernet 10/100Mbps port, (1) serial RS-485 port, (1) serial RS-232 port, and (1) hardware setup port
- Data logging up to 10GB on a microSD card
- Programmable file-based data storage
- OLED display on CPU for system status and tag data readouts
- Programmable 4-line OLED message display on CPU for system status and tag data readouts
- 29 discrete, analog and specialty I/O modules including high-speed
- ABS certified

**CPU only $255**

- 7 built-in comm ports: USB programming port, micro USB, Serial RS-485, Serial RS-232, general purpose Ethernet 10/100Mbps port, remote I/O Ethernet 10/100Mbps port, and (2) serial ports
- Data logging up to 32GB on a microSD card (sold separately)
- Programmable 4-line OLED message display on CPU for system status and tag data readouts
- LCD displays on all analog modules
- 59,840 I/O points in total
- 39 discrete, analog and specialty I/O modules including high-speed

**CPU starting at only $419**

- Support for local expansion and remote I/O bases, up to 150 I/O points
- 78 discrete, analog and specialty I/O modules including high-speed
- ABS certified

**Industrial oven control**

**Wastewater treatment**

**Bottling applications**

**www.productivity plc.com**
FREE online PLC selector: http://go2adc.com/select-plc

And don’t forget, our tech support group is available at 1(800) 633-0405 to answer any questions you may have about the capabilities of our many PLC products.

Still unsure which PLC is for you? Let us help.

When it comes to deciding which one of our latest PLCs is the one for your application, we want to help. Our online interactive PLC selector tool can help you on the right path to the right PLC. Simply choose the type and amount of I/O, the type of communication, and any hardware or software requirements. The tool will then display the suitable PLCs based on your selections, along with overviews/videos, cost comparisons, and feature listings.

FREE software and FREE technical support for life on all our PLCs!
Three fully-supported PLC families from three highly reputable companies

You trust AutomationDirect for low-cost, dependable PLCs, but here’s a little info on the companies we trust for our PLC products. We’ve partnered with three well-respected companies in the automation technology field for our PLC product lines. Each company fully supports and is constantly improving their PLC offerings to not only meet ever-changing industry demands but also exceed customer expectations.

JONESBOROUGH, TN
Host Engineering was founded in 1992 with the mission to create DirectSOFT, the first Window-based micro PLC programming package, which supported the 1994 launch of PLCDirect by Koyo, now AutomationDirect.com. Host Engineering and AutomationDirect have partnered to develop and offer enhanced PLC programming software, data servers, Ethernet communications, and high-speed motion I/O products. In 2012, the powerful and agile Do-more! PLC control technology was launched and now, this partnership has produced the Do-more! based BRX PLC platform with a multitude of new features that are both innovative and affordable.

TOKYO, JAPAN
Koyo Electronics is a part of the multi-billion dollar JTEKT group of companies that primarily provides automotive components, such as Toyota. With over 60 years of engineering and manufacturing expertise, Koyo has become a leader in the world for creating products that offer the best combination of reliability, ease of use, features and price. In 1994, PLCDirect by Koyo was established as a subsidiary of Koyo Electronics. This was the first entity within the Koyo group to concentrate solely on the micro PLC market. Since then, many versions of the successful Koyo PLC have been introduced— the DL205, DL305, and DL405, along with the eventual creation of the extremely practical CLICK PLC line.

TRINITY, FL
Founded in 1987, FACTS Engineering is an award-winning company and exclusive supplier for AutomationDirect. FACTS offers more than 500 products, including many PLC modules and pre-wired cables, HMI, power, and signal conditioning products. FACTS often collaborates with AutomationDirect on new products, such as Productivity2000, that are designed to exceed customer needs.

Learn more about them here: http://go2adc.com/suppliers
Our campus is located about 45 minutes north of Atlanta, GA, USA. We’re all here — our sales and technical support teams, purchasing, accounting, and of course our huge warehouses and speedy logistics team.

AutomationDirect.com has been a leader in providing affordable, quality industrial control products to the U.S. and Canada for more than two decades.

As a privately-held efficiently run company, we take pride in serving our customers the way they want to be served - honestly and fairly. We do everything we can to accomplish this day in and day out.