

CLICK PLC System

Product Overview

VID: L-PLC-CLK-013

CLICK PLC – Product Overview



The Almost Free PLC that's so simple to use, we named it CLICK.



What you can expect:

- Four Basic CPU modules with discrete I/O
- Three Analog CPU modules with discrete and analog I/O
- Two RS-232 communication ports
- One RS-485 communication port (Analog CPU)
- Up to 8 expandable I/O modules per system (142 I/O total)
- FREE, Full featured programming software with 21 Easy-to-Use Instructions
- 8,000 Steps of Program Memory

Use a CLICK CPU Module as a stand-alone controller...

Choose from **SEVEN** CPU Models with various I/O types:

<u>CPU Item Code</u>	<u>I/O Types</u>
C0-00DD1-D	8 DC In 6 Sinking DC Out
C0-00DD2-D	8 DC In 6 Sourcing DC Out
C0-00DR-D	8 DC In 6 Relay Out
C0-00AR-D	8 AC In 6 Relay Out
C0-02DD1-D	4 DC In 4 Sinking DC Out 2 Analog Inputs & 2 Analog Outputs
C0-02DD2-D	4 DC In 4 Sourcing DC Out 2 Analog Inputs & 2 Analog Outputs
C0-02DR-D	4 DC In 4 Relay Out 2 Analog Inputs & 2 Analog Outputs



CLICK CPU Module
C0-00DD1-D

... OR expand your CLICK with up to 8 I/O Modules!

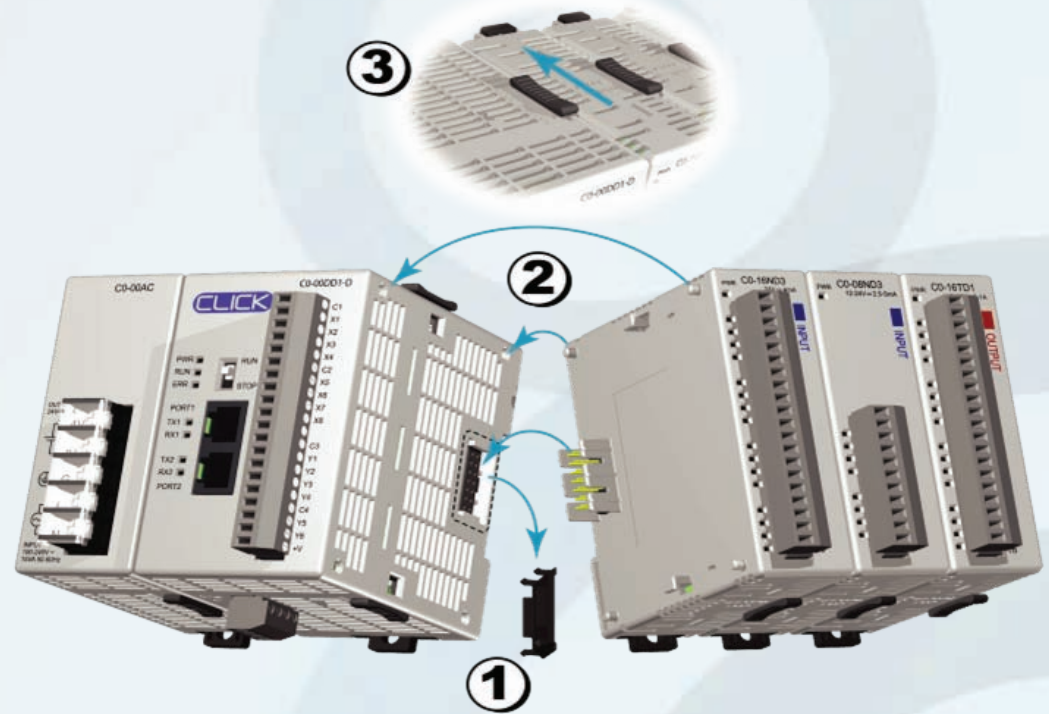


**‘Rackless’ design means no base or backplane required.
Expand by sliding and locking modules together.**

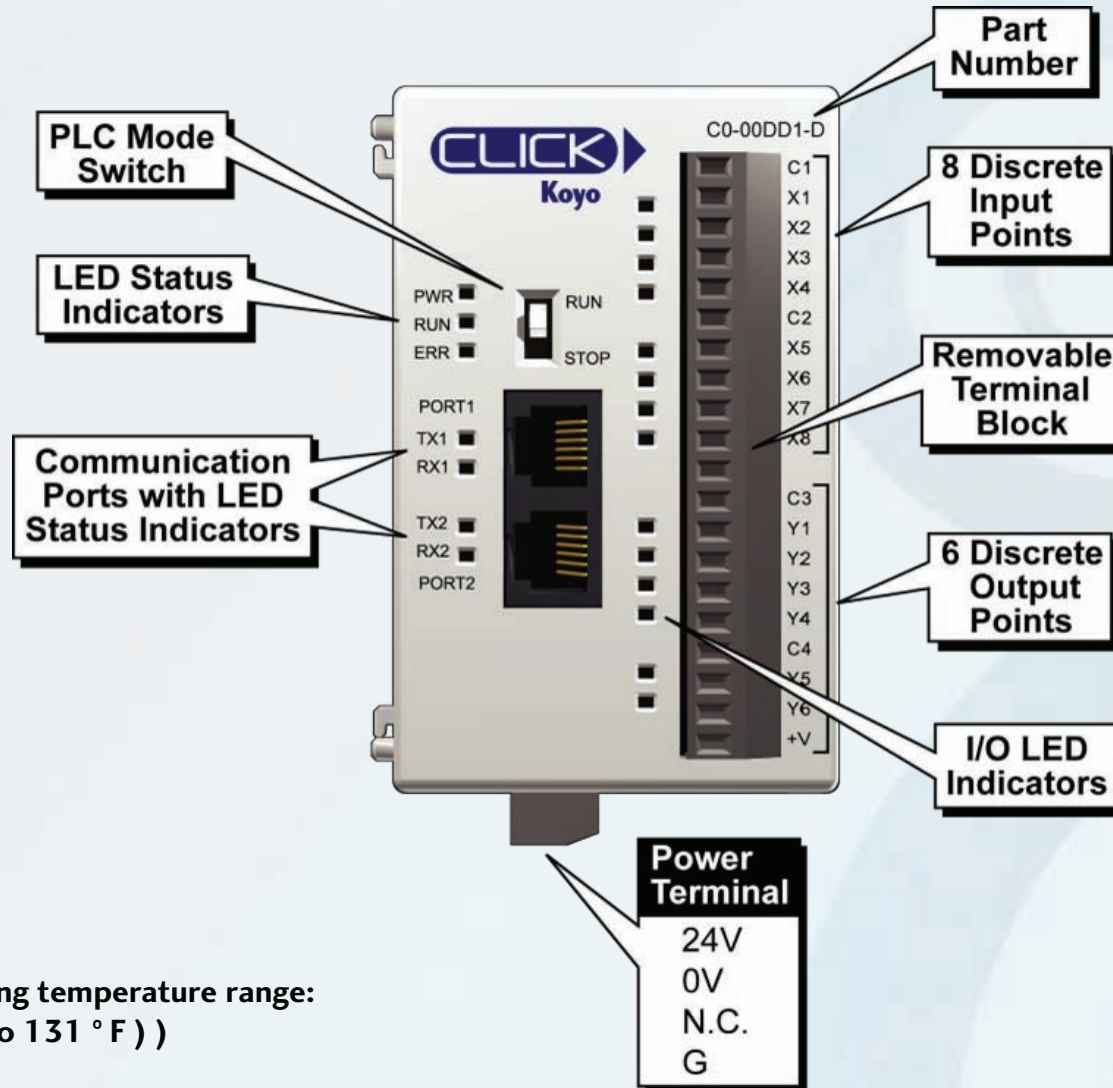
Easy Expansion

Slide and lock modules together.

- 1) Remove extension port covers and slide latch tabs forward.
- 2) Align the module pins and connection plug, and press the I/O module onto the right side of the CPU.
- 3) Slide the latch tabs backward to lock the modules together.

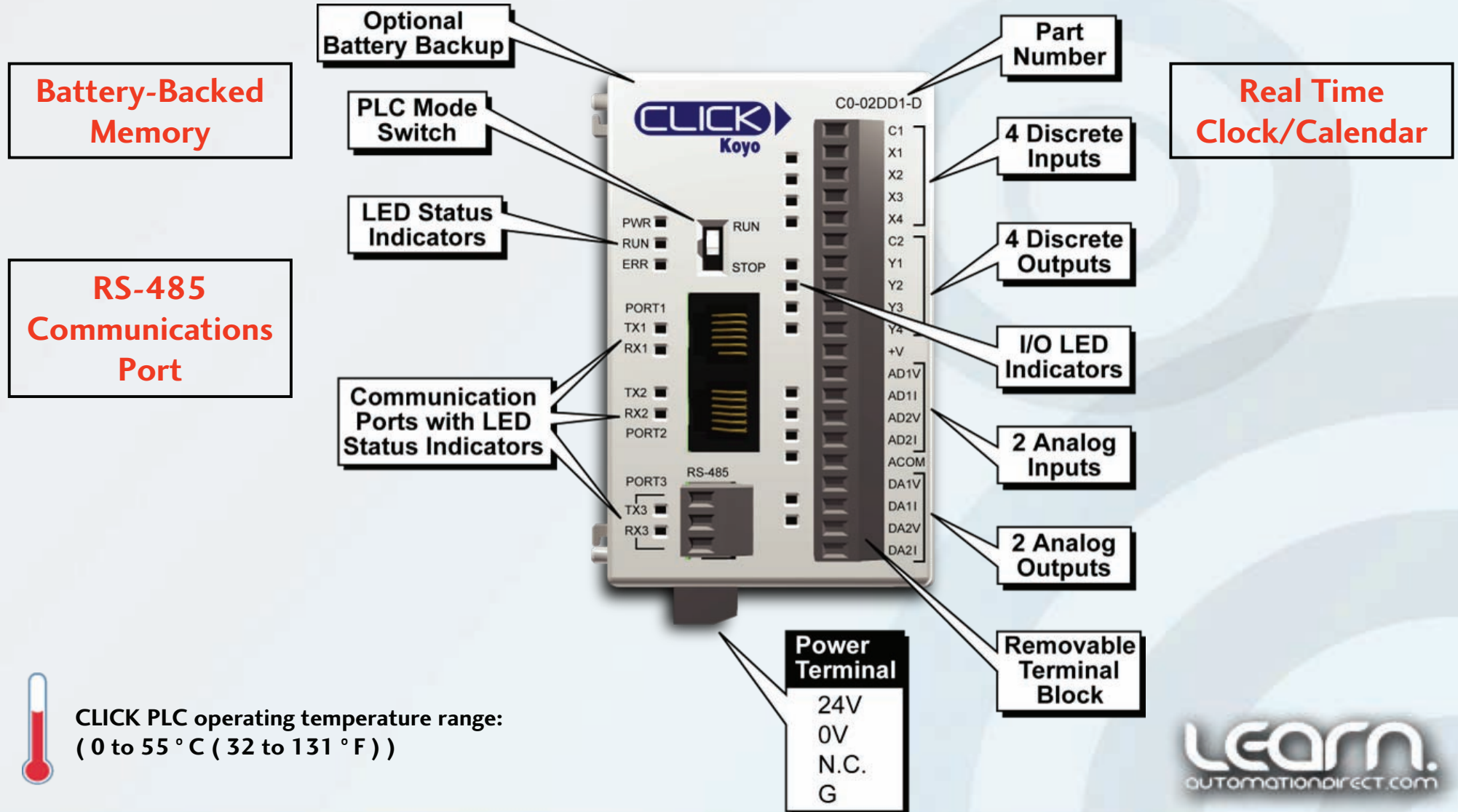


Basic CPU Hardware Overview



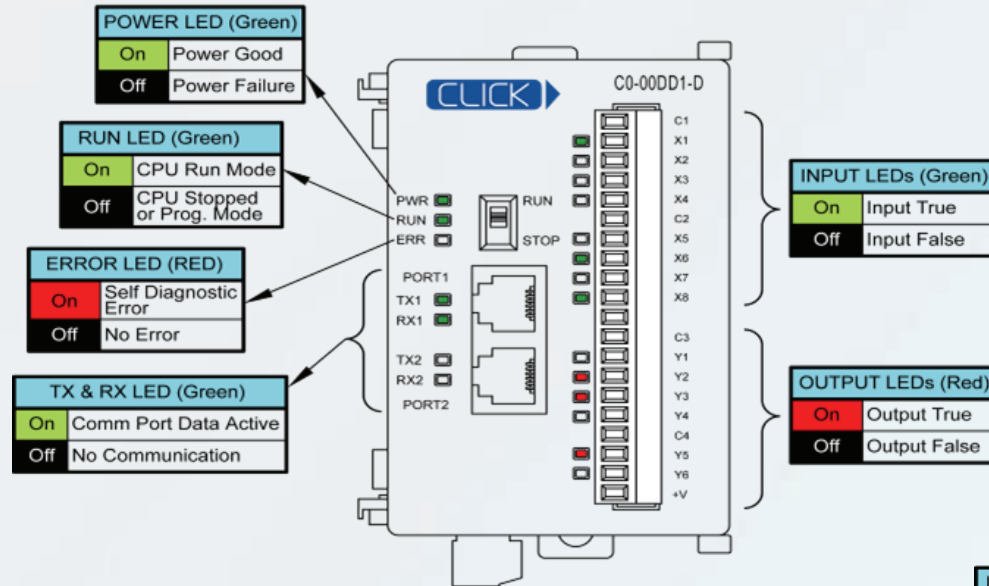
CLICK PLC operating temperature range:
(0 to 55 ° C (32 to 131 ° F))

Analog CPU Hardware Overview

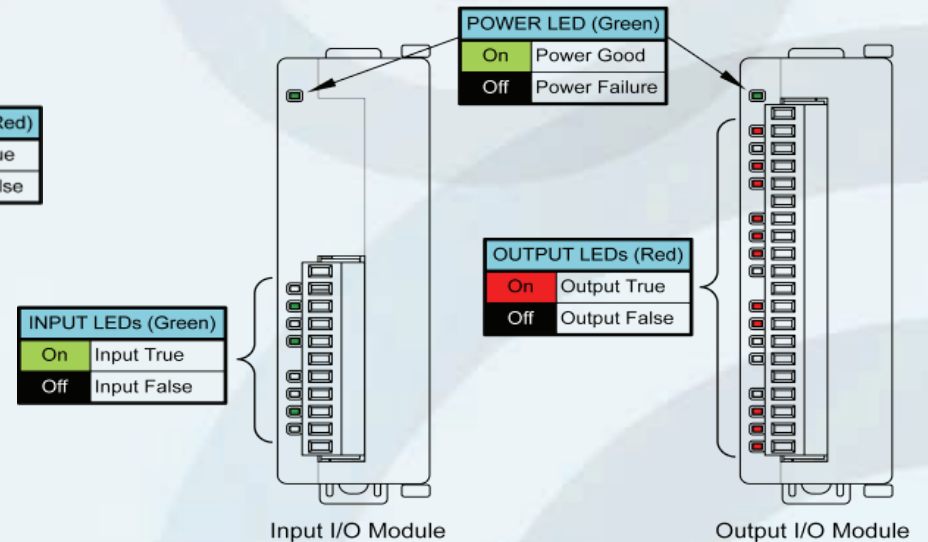


LED Status Indicators

CLICK LED Status Indicators



I/O Module LED Status Indicators

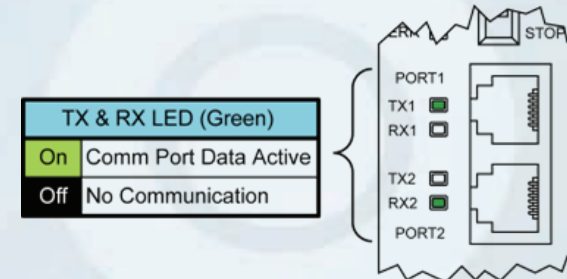


Built-in Communications

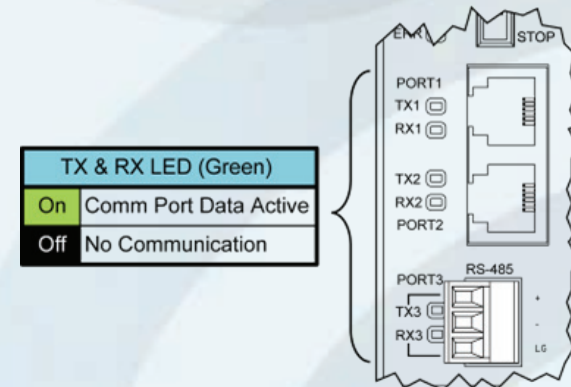
Up to Three Serial Communication Ports

- Standard MODBUS RTU protocol supported.
- Port 1 – RS-232, primarily used as the programming port, parameters are fixed. Connect as a Modbus RTU slave device.
- Port 2 – RS-232, port parameters are user configurable. Connect as either a Modbus RTU master or slave device, or handle ASCII data In or Out.
- Port 3 – RS-485 (Analog CPU only), port parameters are user configurable. Connect as either a Modbus RTU master or slave device, or handle ASCII data In or Out.

Port 1 & 2 LED Status Indicators



Port 1, 2, & 3 LED Status Indicators

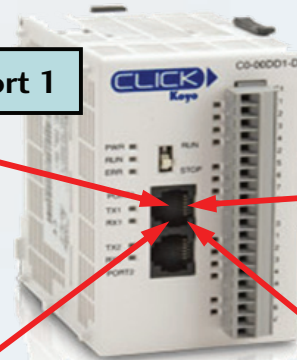


Port 1 – Modbus RTU Slave Mode (only)



PC Running CLICK
Programming Software

Port 1



CLICK CPU

RS-232



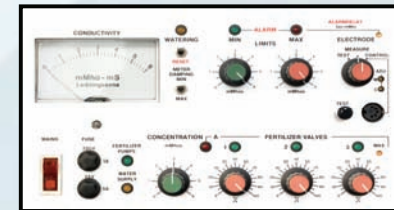
Another CLICK PLC
(Modbus RTU Master
Mode, Port 2 Only)

RS-232



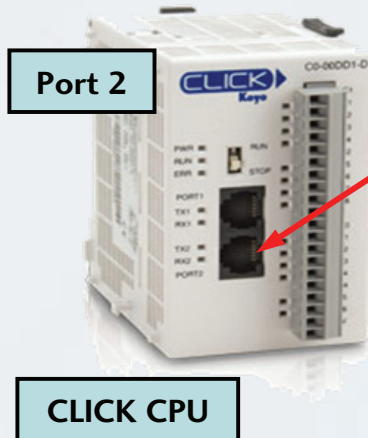
C-more and C-more
Micro-Graphic Panel

Either port can supply
5 VDC to a C-more
Micro-Graphic panel
to power it, but not
at the same time.



Other Devices
Supporting Modbus RTU
Master Mode

Port 2 – Modbus RTU Master, or...

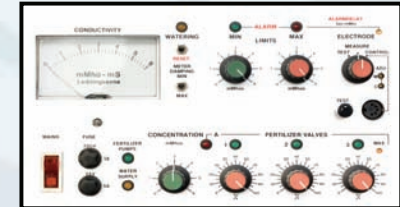


RS-232

CLICK CPU in Modbus Master Mode



Another CLICK PLC
(Modbus RTU Slave
Mode, Port 1 or 2)



Other Devices
Supporting Modbus RTU
Slave Mode

Port 2 – Modbus RTU Slave, or...

CLICK CPU in Modbus Slave Mode

Port 2

RS-232

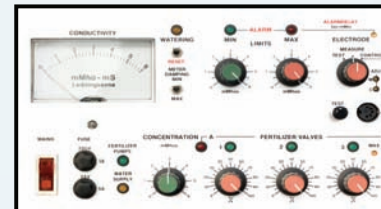
CLICK CPU



PC Running CLICK
Programming Software



Another CLICK PLC
(Modbus RTU Master
Mode, Port 2 Only)

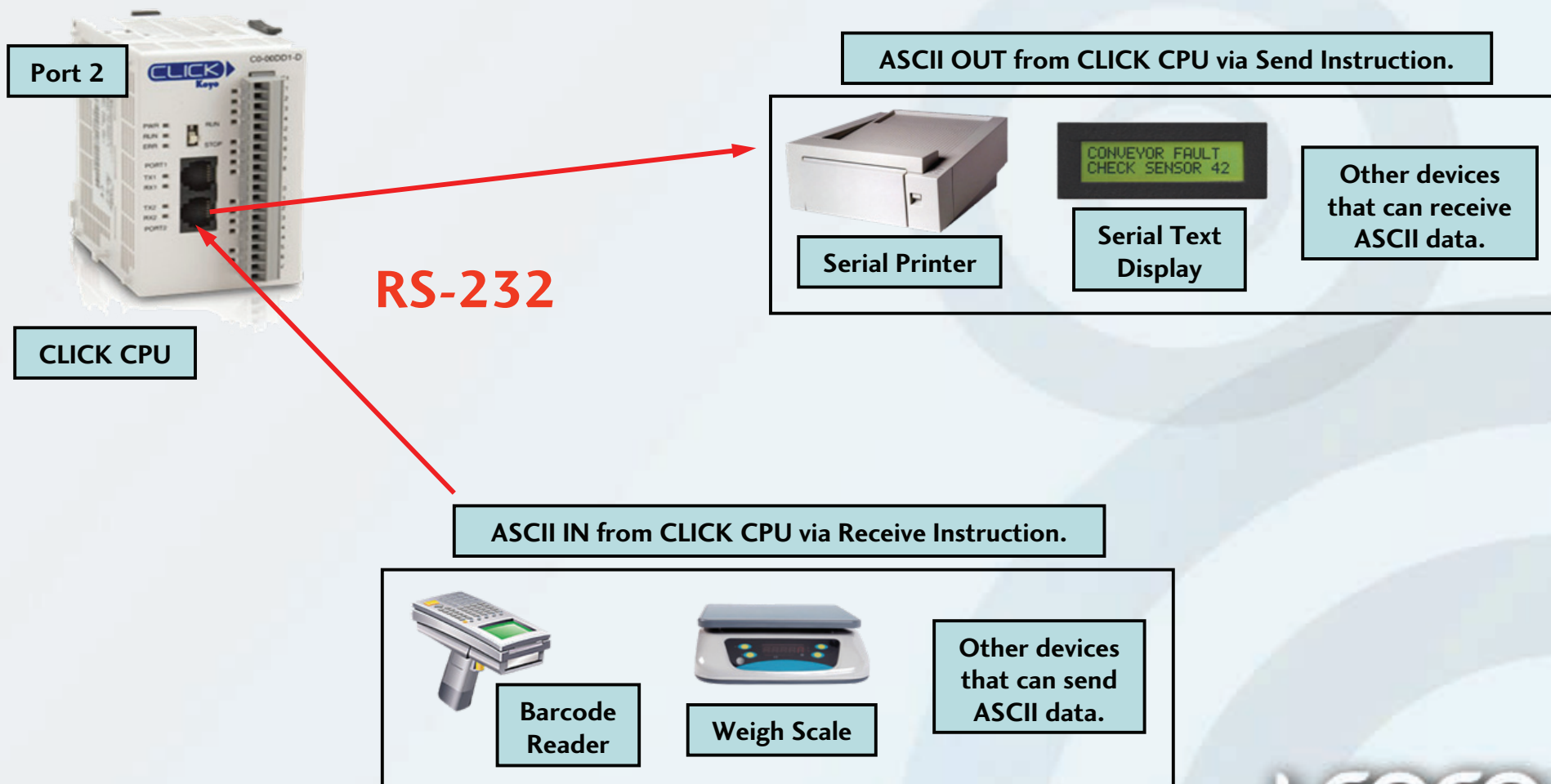


Other Devices
Supporting Modbus RTU
Master Mode



C-more and C-more
Micro-Graphic Panel

Port 2 – ASCII Data In or Out



Port 3 – Modbus RTU Master, or...



Port 3

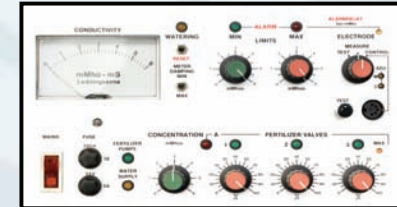
RS-485

CLICK
Analog CPU

CLICK CPU in Modbus Master Mode



Another CLICK PLC
(Modbus RTU Slave)



Other Devices
Supporting Modbus RTU
Slave Mode

Port 3 – Modbus RTU Slave, or...



Port 3

RS-485

CLICK
Analog CPU

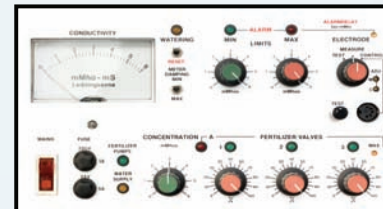
CLICK CPU in Modbus Slave Mode



PC Running CLICK
Programming Software



Another CLICK PLC
(Modbus RTU Master
Mode)

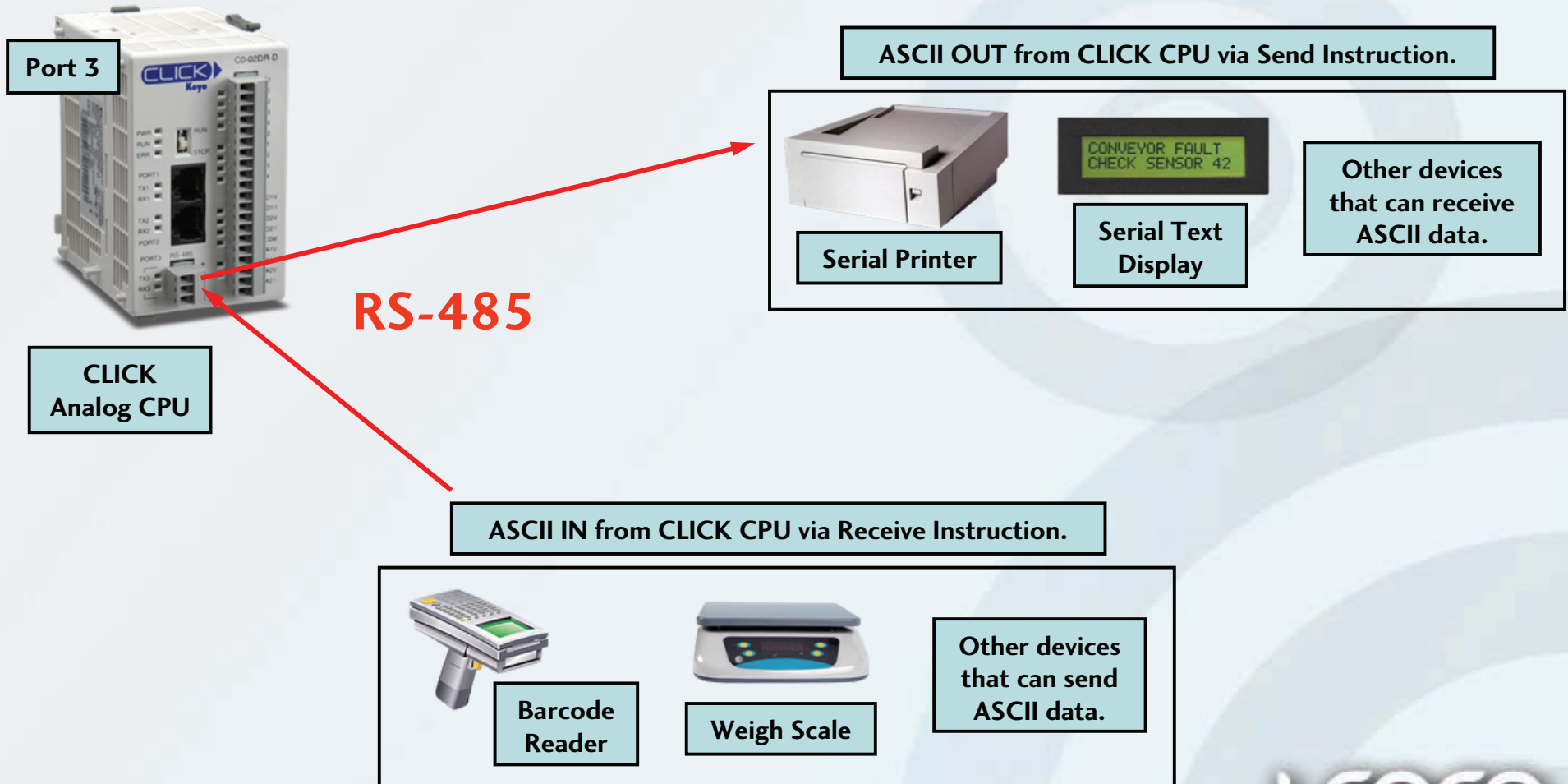


Other Devices
Supporting Modbus RTU
Master Mode

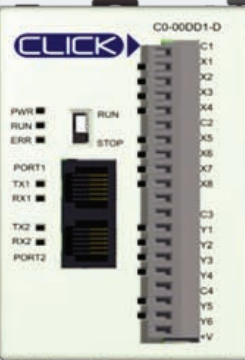


C-more and C-more
Micro-Graphic Panel

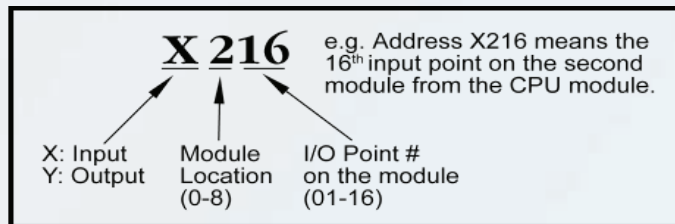
Port 3 – ASCII Data In or Out



Decimal Addressing

Position	0	1	2	3	4	5	6	7	8
									
I/O Address	CPU X001—X008 Y001—Y006	X101 — X116	X201 — X216	X301 — X316	X401 — X416	X501 — X508	Y601 — Y616	Y701 — Y716	Y801 — Y808

Decimal addresses are easier to comprehend, manipulate, and count. CLICK also provides automatic MODBUS addressing.

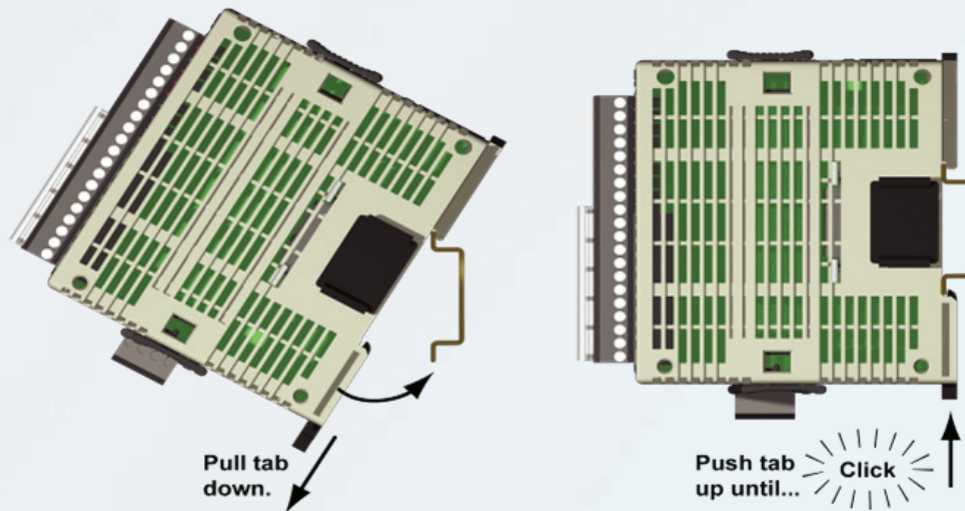


Decimal Addressing, starting with 'one', makes it more convenient to keep track of how many I/O points are available and how they are distributed.

142 Total I/O Points = CPU's 14 I/O Points + 8 I/O Modules Maximum X 16 Maximum Points per I/O Module.

Easy Installation – Two Methods

DIN Rail or...



Mounting Tabs



Expansion – I/O Modules – Inputs



**8 DC Inputs
12-24 VDC
(Sink/Source)
C0-08ND3**



**8 DC Inputs
3.3-5 VDC
(Sink/Source)
C0-08ND3-1**



**16 DC Inputs
24 VDC
(Sink/Source)
C0-16ND3**



**8 AC Inputs
100-120 VAC
C0-08NA**

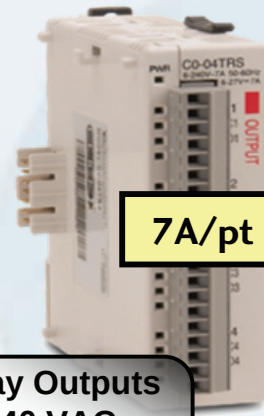
Expansion – I/O Modules – Outputs



8 DC Outputs
3.3-27 VDC
(Sinking)
C0-08TD1

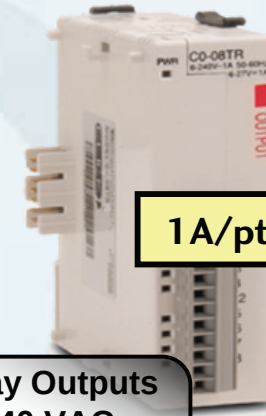


8 DC Outputs
12-24 VDC
(Sourcing)
C0-08TD2



7A/pt

4 Relay Outputs
6-240 VAC
or 6-27 VDC
C0-04TRS



1A/pt

8 Relay Outputs
6-240 VAC
or 6-27 VDC
C0-04TR



16 DC Outputs
5-27 VDC
(Sinking)
C0-16TD1



16 DC Outputs
12-24 VDC
(Sourcing)
C0-16TD2



8 AC Outputs
17-240 VAC
C0-08TA

Powering CLICK

Two CLICK Power Supplies available or...



Power Supply
100-240 VAC Input
24 VDC 0.5 A Output
C0-00AC

Ample power for CPU plus
limited I/O configuration.



Power Supply
100-240 VAC Input
24 VDC 1.3 A Output
C0-01AC

Unlimited power budget
for any I/O configuration.

Wire 24 VDC from
power supply to
the power connector
on bottom of CPU.



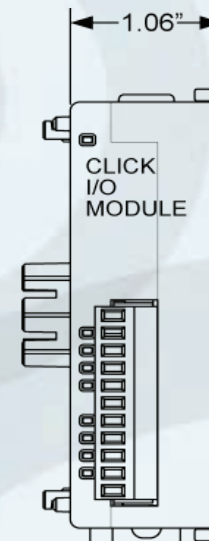
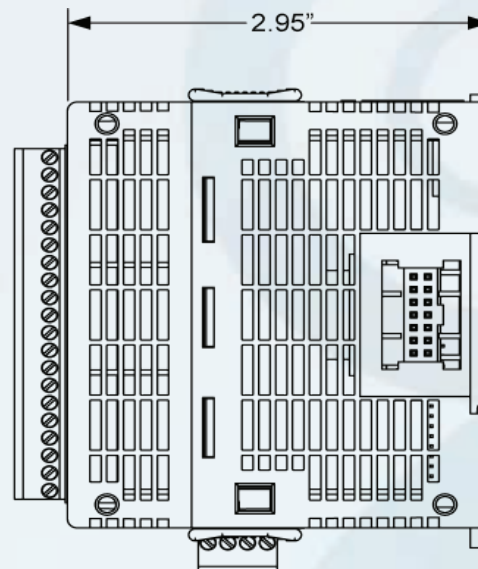
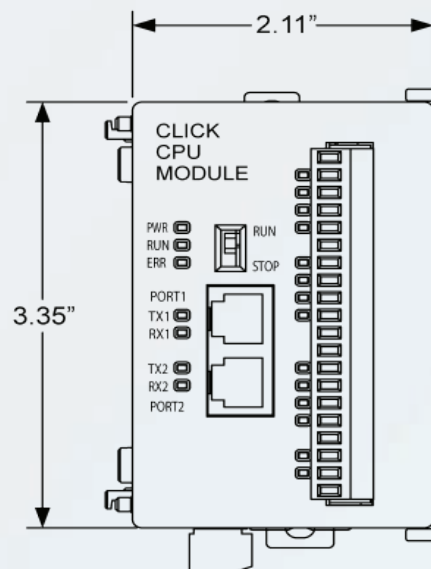
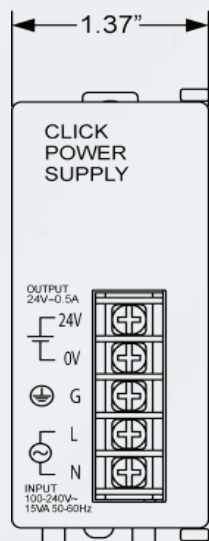
24 VDC Power Connector

...user provided power supply.

Check out our
RHINO brand of
industrial power
supplies for your
application.

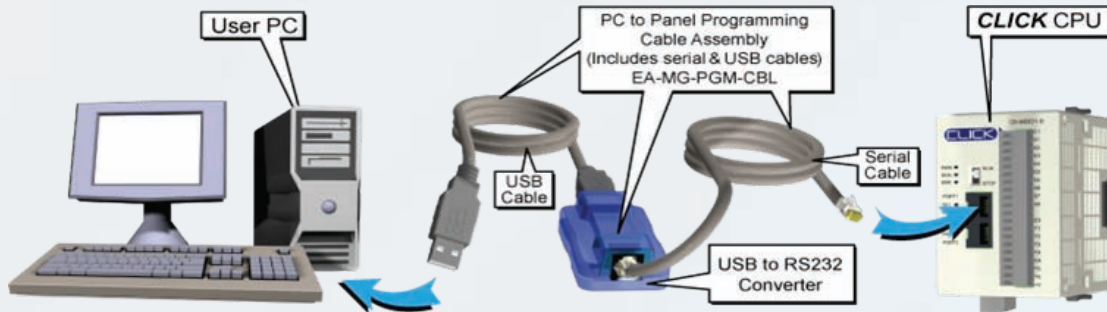


Dimensions



PC to CLICK Communications

USB to RS232 converter or...



...direct RS232 cable.



Free Programming Software

FREE downloadable software or...



The best way to understand the ease of programming for CLICK is to download the software and give it a try. The CLICK Programming Software is designed to be a user-friendly application, and the tools, layout, and software interaction provide an easy and quick learning experience.

NOTE: CLICK PLCs cannot be programmed using *DirectSOFT5* programming software, which is used to program our *Direct* LOGIC PLCs; you must use the CLICK programming software, C0-PGMSW.

...purchase programming software CD,
item code C0-PGMSW

NOTE: See the CLICK Programming Software Installation Guide for details on PC minimum requirements.



Available
Soon

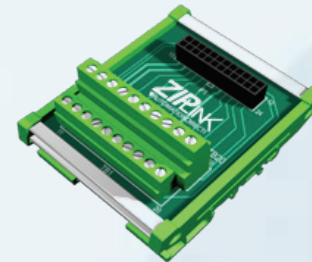
Free Download @
<http://ftp.automationdirect.com/pub/clicksoftware.zip>

ZIPLink Five-Second PLC Wiring

ZIPLink Wiring System Compatibility Matrix for CLICK PLCs						
	Step 1: Select a Module		Step 2: Select a ZIPLink Module	Step 3: Select a Cable and Specify Length		
	Part Number	Terminals				
CPU Modules	C0-00DD1-D	20	ZL-RTB20 (Feedthrough Module)	ZL-C0-CBL20#		
	C0-00DD2-D					
	C0-00DR-D					
	C0-00AR-D					
I/O Modules	C0-16ND3			11	ZL-RTB20 (Feedthrough Module)	ZL-C0-CBL11#
	C0-16TD1					
	C0-16TD2					
	C0-04TRS*					
	C0-08ND3					
	C0-08ND3-1					
	C0-08NA					
	C0-08TD1					
C0-08TD2						
C0-08TR						
C0-08TA						

**Note: The C0-04TRS relay output module is derated to 2A per point maximum when used with the ZipLink wiring system.*

Three Cable Lengths are available.



Note: ZIPLinks are only available for Basic CPU modules.

Please note.

Learn.AutomationDirect.com is an online streaming tutorial site offering training and information on a wide range of practical automation products.

THE LEARN.AUTOMATIONDIRECT.COM WEBSITE, AND THE TRAINING AND INFORMATION PROVIDED IN CONNECTION THEREWITH, IS SUPPLIED "AS IS". These video presentations and other documents are provided by our associates to assist others in learning the products we sell and service. We make no representation, warranty or guaranty, whether expressed, implied or statutory, regarding the LEARN.AUTOMATIONDIRECT.COM website on the training, information and the content, including without limitation, the implied warranties of merchantability or fitness for a particular purpose, and any representation, warranty or guaranty that the foregoing will be accurate, complete, uninterrupted error free or non-infringing, is suitable for your particular application, nor do we assume any responsibility for the use of this information in your application.

User suggestions, corrections and feedback are not only welcomed, but are essential to the maintenance of current content and the creation of new content. If there is a training idea, or correction to an existing presentation you would like us to consider, please complete and submit the suggestion form that is shown as a "Suggestions" link at the bottom of every page.

Thank you!