

מבחר בקרי קליק עם כניסות ויציאות אנאלוגיות, דיסקרטיות וחיבורי אטרנט

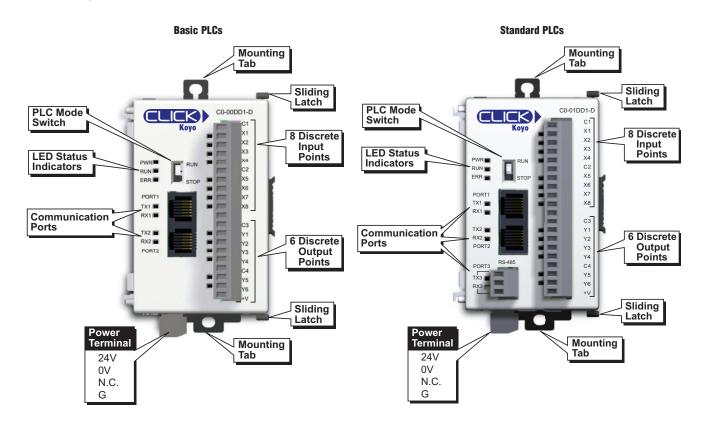
CLICK Specifications

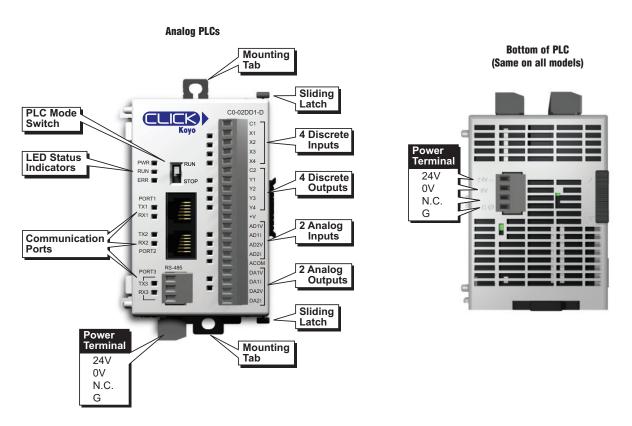
Basic, Standard and Analog PLC Unit Specifications					
Basic PLC Standard PLC Analog PLC					
Control Method	Stored Program/Cyclic execution method	Stored Program/Cyclic execution method	Stored Program/Cyclic execution method		
I/O Numbering System	Fixed in Decimal	Fixed in Decimal	Fixed in Decimal		
Ladder Memory (steps)	8000	8000	8000		
Total Data Memory (words)	8000	8000	8000		
Contact Execution (boolean)	< 0.6us	< 0.6us	< 0.6us		
Typical Scan (1k boolean)	1-2 ms	1-2 ms	1-2 ms		
RLL Ladder Style Programming	Yes	Yes	Yes		
Run Time Edits	No	No	No		
Scan	Variable / fixed	Variable / fixed	Variable / fixed		
CLICK Programming Software for Windows	Yes	Yes	Yes		
Built-in Communication Ports	Yes (two RS-232 ports)	Yes (two RS-232 ports and one RS-485 port)	Yes (two RS-232 ports and one RS-485 port)		
FLASH Memory	Standard on PLC	Standard on PLC	Standard on PLC		
Built-in Discrete I/O points	8 inputs, 6 outputs	8 inputs, 6 outputs	4 inputs, 4 outputs		
Built-in Analog I/O Channels	No	No	2 inputs, 2 outputs		
Number of Instructions Available	21	21	21		
Control Relays	2000	2000	2000		
System Control Relays	1000	1000	1000		
Timers	500	500	500		
Counters	250	250	250		
Interrupt	Yes (external: 8 / timed: 4)	Yes (external: 8 / timed: 4)	Yes (external: 4 / timed: 4)		
Subroutines	Yes	Yes	Yes		
For/Next Loops	Yes	Yes	Yes		
Math (Integer and Hex)	Yes	Yes	Yes		
Drum Sequencer Instruction	Yes	Yes	Yes		
Internal Diagnostics	Yes	Yes	Yes		
Password Security	Yes	Yes	Yes		
System Error Log	Yes	Yes	Yes		
User Error Log	No	No	No		
Memory Backup	Super Capacitor	Super Capacitor + Battery	Super Capacitor + Battery		
Battery Backup	No	Yes (battery sold separately; part # D2-BAT-1)	Yes (battery sold separately; part # D2-BAT-1)		
Calendar/Clock	No	Yes	Yes		
I/O Terminal Block Replacement Communication Port & Terminal	ADC p/n CO-16TB	ADC p/n CO-16TB	ADC p/n C0-16TB		
Block Replacement	N/A	ADC p/n C0-3TB	ADC p/n C0-3TB		
24 VDC Power Terminal Block Replacement	ADC p/n C0-4TB	ADC p/n CO-4TB	ADC p/n C0-4TB		

PLC Units Specifications (continued)

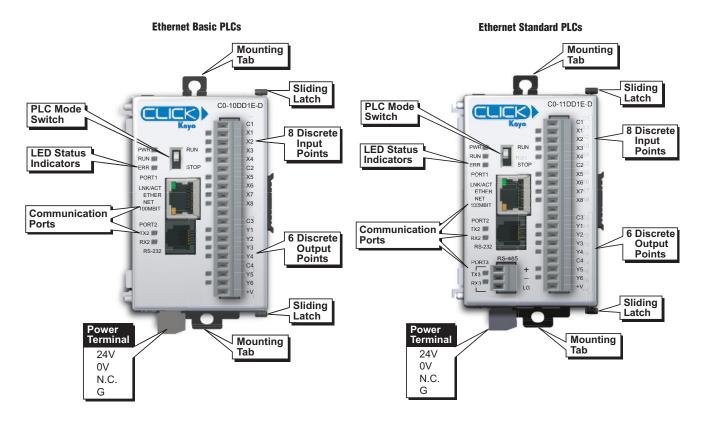
Ethernet Basic, Standard and Analog PLC Unit Specifications				
	Ethernet Basic PLC	Ethernet Standard PLC	Ethernet Analog PLC	
Control Method	Stored Program/Cyclic execution method	Stored Program/Cyclic execution method	Stored Program/Cyclic execution method	
I/O Numbering System	Fixed in Decimal	Fixed in Decimal	Fixed in Decimal	
Ladder Memory (steps)	8000	8000	8000	
Total Data Memory (words)	8000	8000	8000	
Contact Execution (boolean)	< 0.2 µs	< 0.2 µs	< 0.2 μs	
Typical Scan (1k boolean)	< 1ms	< 1ms	< 1ms	
RLL Ladder Style Programming	Yes	Yes	Yes	
Run Time Edits	Yes	Yes	Yes	
Scan	Variable / fixed	Variable / fixed	Variable / fixed	
CLICK Programming Software for Windows	Yes	Yes	Yes	
Built-in Communication Ports	Yes (one Ethernet port and one RS-232 port)	Yes (one Ethernet port, one RS-232 port and one RS-485 port)	Yes (one Ethernet port, one RS-232 port and one RS-485 port)	
FLASH Memory	Standard on PLC	Standard on PLC	Standard on PLC	
Built-in Discrete I/O points	8 inputs, 6 outputs	8 inputs, 6 outputs	4 inputs, 4 outputs	
Built-in Analog I/O Channels	No	No	2 or 4 inputs; 2 outputs	
Number of Instructions Available	21	21	21	
Control Relays	2000	2000	2000	
System Control Relays	1000	1000	1000	
Timers	500	500	500	
Counters	250	250	250	
Interrupt	Yes (external: 8 / timed: 4)	Yes (external: 8 / timed: 4)	Yes (external: 8 / timed: 4)	
Subroutines	Yes	Yes	Yes	
For/Next Loops	Yes	Yes	Yes	
Math (Integer and Hex)	Yes	Yes	Yes	
Drum Sequencer Instruction	Yes	Yes	Yes	
Internal Diagnostics	Yes	Yes	Yes	
Password Security	Yes	Yes	Yes	
System Error Log	Yes	Yes	Yes	
User Error Log	No	No	No	
Memory Backup	Super Capacitor + Battery	Super Capacitor + Battery	Super Capacitor + Battery	
Battery Backup	Yes (battery part # D2-BAT-1)	Yes (battery part # D2-BAT-1)	Yes (battery part # D2-BAT-1)	
Calendar/Clock	Yes	Yes	Yes	
I/O Terminal Block Replacement	ADC p/n C0-16TB	ADC p/n C0-16TB	ADC p/n C0-16TB	
Communication Port & Terminal Block Replacement	N/A	ADC p/n C0-3TB	ADC p/n C0-3TB	
24 VDC Power Terminal Block Replacement	ADC p/n C0-4TB	ADC p/n C0-4TB	ADC p/n C0-4TB	

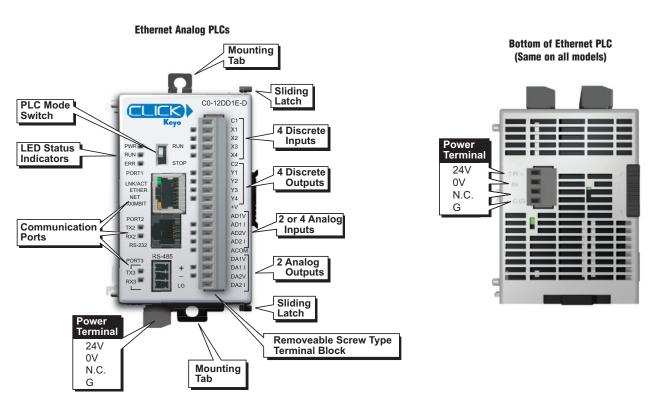
PLC Features



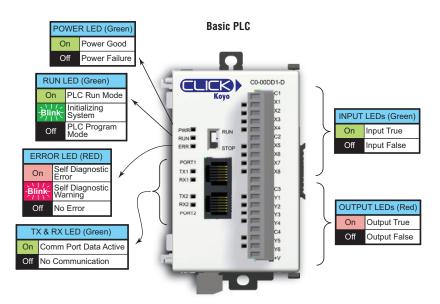


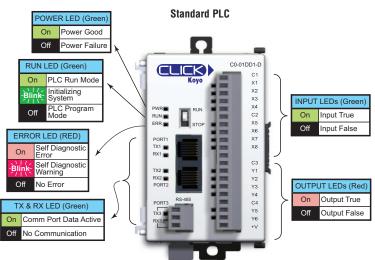
PLC Features (continued)

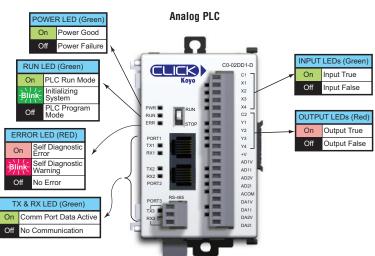




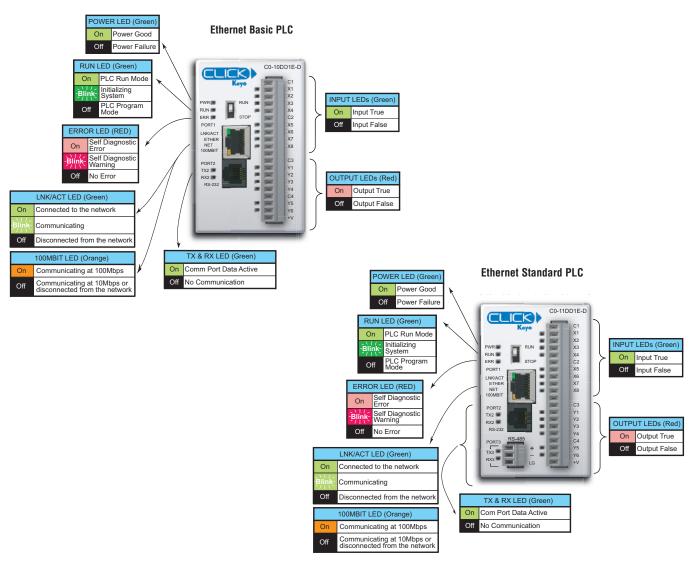
PLC LED Status Indicators

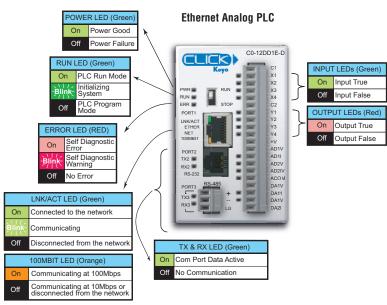






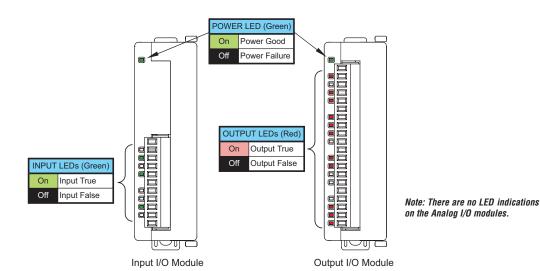
PLC LED Status Indicators



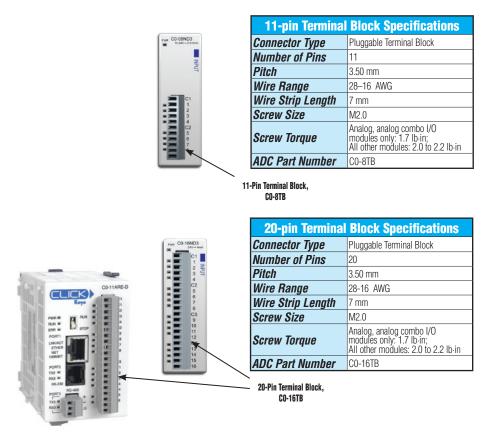


I/O Module LED Status Indicators

I/O Module LED Status Indicators



I/O Terminal Block Specifications for PLCs and I/O Modules



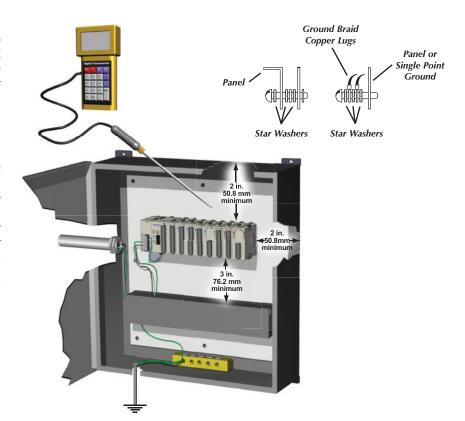
Product Dimensions and Installation

It is important to understand the installation requirements for your CLICK system. Your knowledge of these requirements will help ensure that your system operates within its environmental and electrical limits.

Plan for Safety

This catalog should never be used as a replacement for the user manual.

You can purchase, download free, or view online the user manuals for these products. Manual CO-USER-M is the user manual for the CLICK PLC. The user manual contains important safety information that must be followed. The system installation should comply with all appropriate electrical codes and standards.





NOTE: There is a mimimum clearance requirement of 2 inches(51 mm)

Between the CLICK PLC and the panel door or any devices mounted in

the panel door. The same clearance is required between the PLC and any

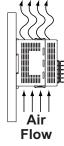
side of the enclosure. A minimum clearance of 3 inches (76 mm) is required

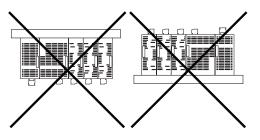
between the PLC and a wireway or any heat producing device.



Mounting Orientation

CLICK PLCs must be mounted properly to ensure ample airflow for cooling purposes. It is important to follow the unit orientation requirements and to verify that the PLC's dimensions are compatible with your application. Notice particularly the grounding requirements and the recommended cabinet clearances.





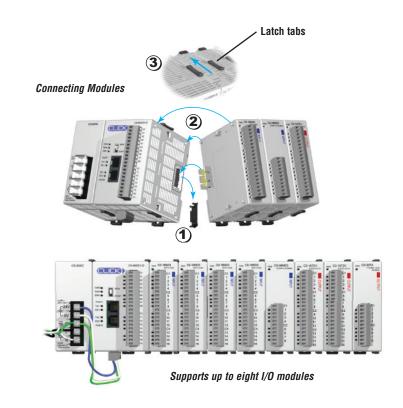


Product Dimensions and Installation

Connecting the Modules Together

CLICK PLCs, I/O modules and power supplies connect together using the extension ports that are located on the side panels of the modules (no PLC backplane/base required).

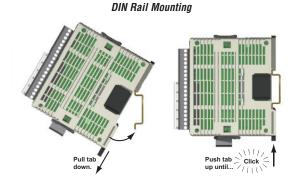
- 1. Remove extension port covers and slide the latch tabs forward.
- Align the module pins and connection plug, and press the I/O module onto the right side of the PLC.
- 3. Slide the latch tabs backward to lock the modules together.



Mounting

The CLICK PLC system, which includes the CLICK power supplies, PLC units, and I/O modules, can be mounted in one of two ways.

- 1. DIN rail mounted
- 2. Surface mounted using the built-in upper and lower mounting tabs.





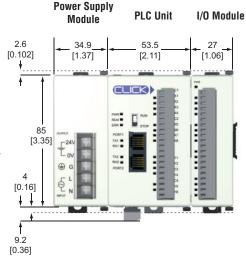
Unit Dimensions

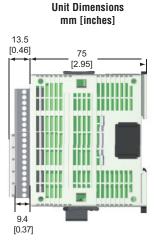
The dimensional drawings here and on [0.102] the next page show the outside dimensions of the CLICK power suppy, PLC, and I/O modules. The CLICK PLC system is designed to be mounted on standard 35mm DIN rail, or it can be surface mounted.

Allow proper spacing from other components within an enclosure.

Maximum system:

Power Supply + PLC + 8 I/O modules.

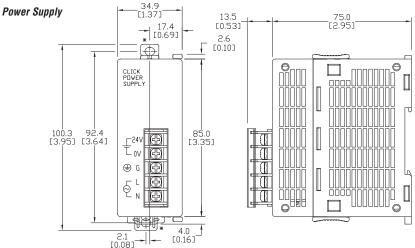




Product Dimensions and Installation

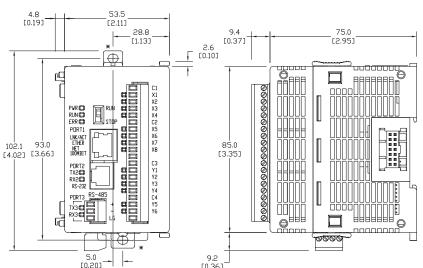
Unit Dimensions

mm [inches]

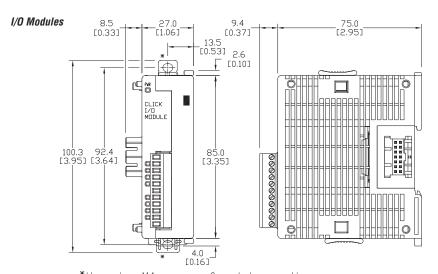


*Use size M4 screws for tab mounting.

PLC Units



^{*}Use size M4 screws for tab mounting.



*Use size M4 screws for tab mounting.

Built-in Communications Ports

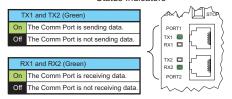
Basic, Standard and Analog PLCs have two built-in RS-232 communications ports. Standard and Analog PLCs also have one built-in RS-485 communications port. One RS-232 port supports the Modbus RTU protocol only and can be used as the programming port. The other ports support either Modbus RTU or ASCII protocol. Both RS-232 ports supply 5V DC, so you can connect a monochrome C-more Micro HMI panel without an additional power supply.

LED Status Indicators

There are LED indicators located to the left of each communications port to indicate when the port is transmitting or receiving.

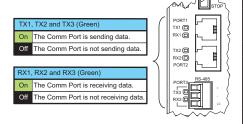
Basic PLCs





Standard and Analog PLCs

Port 1, 2, & 3 LED Status Indicators



Port Setup

Use CLICK programming software to easily configure the communications ports.



Basic PLC

Com Port 1 Specifications		
Use: Programming Port / Serial Communications (Slave only)		
Physical: 6 pin, RJ12, RS-232		
Communication speed (baud): 38400 (fixed)		
Parity: Odd		
Station Address: 1		
Data length: 8 bits		
Stop bit: 1		
Protocol: Modbus RTU (slave only)		

Com Port 2 Specifications	Default
Use: Serial Communications	-
Physical: 6 pin, RJ12, RS-232	-
Communication speed (baud): 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200	38400
Parity: odd, even, none	Odd
Station Address: 1 to 247	1
Data length: 8 bits (Modbus RTU) or 7, 8 bits (ASCII)	8 bits
Stop bit: 1,2	1
Protocol: Modbus RTU (master/slave) or ASCII in/out	Modbus RTU

Com Port 3 Specifications	Default
Use: Serial Communications	-
Physical: 3 pin, RS-485	-
Communication speed (baud): 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200	38400
Parity: odd, even, none	Odd
Station Address: 1 to 247	1
Data length: 8 bits (Modbus RTU) or 7, 8 bits (ASCII)	8 bits
Stop bit: 1,2	1
Protocol: Modbus RTU (master/slave) or ASCII in/out	Modbus RTI



Port 1

6 pin RJ12 Phone Type Jack



		ort '	1 Pin Descriptions
Э	1	0V	Power (-) connection (GND)
	2	5V	Power (+) connection
	3	RXD	Receive data (RS-232)
	4	TXD	Transmit data (RS-232)
	5	NC	No connection
	6	0V	Power (-) connection (GND)

Port 2

6 pin RJ12 Phone Type Jack

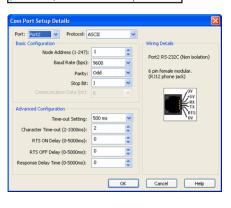


	Port 2 Pin Descriptions		
1	0V	Power (-) connection (GND)	
2	5V	Power (+) connection	
3	RXD	Receive data (RS-232)	
4	TXD	Transmit data (RS-232)	
5	RTS	Request to send	
6	0V	Power (-) connection (GND)	

Port 3



Port 3 Pin Descriptions			
1	+ (þius)	Signal A (RS-485)	
2	- (minus)	Signal B (RS-485)	
3	LG	Logic Ground(0 V)	



Built-in Communications Ports

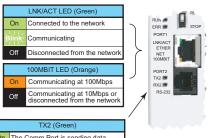
Ethernet Basic, Standard and Analog PLCs have one built-in Ethernet communications port and one RS-232 communications port. Ethernet Standard and Analog PLCs also have one built-in RS-485 communications port. The Ethernet port supports the Modbus TCP protocol. The RS-232 and RS-485 ports support either Modbus RTU or ASCII protocol. The RS-232 port supplies 5 VDC, so you can connect a monochrome C-more Micro HMI panel without an additional power supply.

LED Status Indicators

There are LED indicators located to the left of each communication port to indicate when the port is transmitting or receiving.

Ethernet Basic PLCs

Port 1 & 2 LED Status Indicators

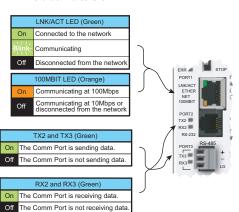


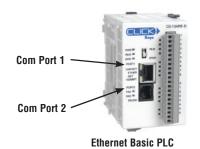
On	The Comm Port is sending data.	
Off	The Comm Port is not sending data.	
BV2 (Croop)		

KAZ (Gleell)		
On	The Comm Port is receiving data.	
Off	The Comm Port is not receiving data.	

Ethernet Standard and Ethernet Analog PLCs

Port 1, 2 & 3 LED Status Indicators

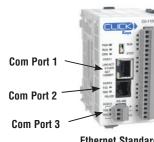




Com P	ort 1	Specifi	cations

Use: Programming and Ethernet Communication
Physical: 8 pin, RJ45, Ethernet
Communication speed (Mbps): 10/100
Protocol: Modbus TCP

Com Port 2 Specifications	Default
Use: Serial Communication	-
Physical: 6 pin, RJ12, RS-232	-
Communication speed (baud): 2400, 4800, 9600, 19200, 38400, 57600, 115200	38400
Parity: odd, even, none	Odd
Station Address: 1 to 247	1
Data length: 8 bits (Modbus RTU) or 7, 8 bits (ASCII)	8 bits
Stop bit: 1,2	1
Protocol: Modbus RTU (master/slave) or ASCII in/out	Modbus RTU



Ethernet Standard and Ethernet Analog PLCs

Port 1

8 pin RJ45



_		
	Port '	1 Pin Descriptions
1	TX+	Transmit Data (+)
2	TX-	Transmit Data (-)
3	RX+	Receive data (+)
4	NC	Not connected
5	NC	Not connected
6	RX-	Receive Data (-)
7	NC	No connection
8	NC	No connection

Port 2

6 pin RJ12 Phone Type Jack



	Port 2 Pin Descriptions		
1	0V	Power (-) connection (GND)	
2	5V	Power (+) connection	
3	RXD	Receive data (RS-232)	
4	TXD	Transmit data (RS-232)	
5	RTS	TS Request to send	
6	0\/	Power (_) connection (CND)	

Com Port 3 Specifications	Default
Use: Serial Communication	-
Physical: 3 pin, RS-485	-
Communication speed (baud): 2400, 4800, 9600, 19200, 38400, 57600, 115200	38400
Parity: odd, even, none	Odd
Station Address: 1 to 247	1
Data length: 8 bits (Modbus RTU) or 7, 8 bits (ASCII)	8 bits
Stop bit: 1,2	1
Protocol: Modbus RTU (master/slave) or ASCII in/out	Modbus RTL

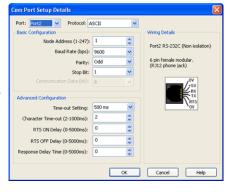
Port Setup

Use CLICK programming software to easily configure the communication ports.



110 100	
	+
	-
	LG

Port 3 Pin Descriptions			
1	+ (plus)	Signal A (RS-485)	
2	- (minus)	Signal B (RS-485)	
3	LG	Logic Ground(0 V)	

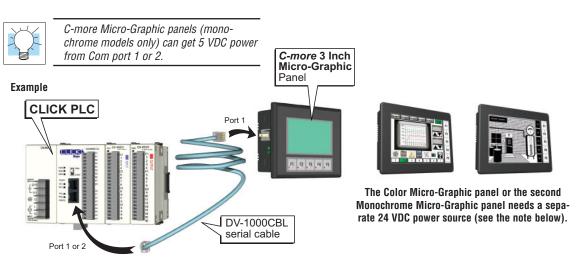


Typical Communication Applications

The diagrams on these three pages illustrate the typical uses for the CLICK PLC's communication ports.

Port 1 (RS-232) - Modbus RTU Slave Mode Only







NOTE: CLICK's (RS-232) Port 1 and Port 2 can provide 5 VDC power to the panel, but not at the same time. If a C-more Micro-Graphic panel is connected to both ports, then at least one of the panels must be powered by a C-more Micro DC power adapter, EA-MG-P1 or EA-MG-SP1, or another 24 VDC power source. Color C-more Micro-Graphic panels must also be powered from a separate 24 VDC source.

Do not use the following Direct LOGIC devices with CLICK's Port 1 or 2:



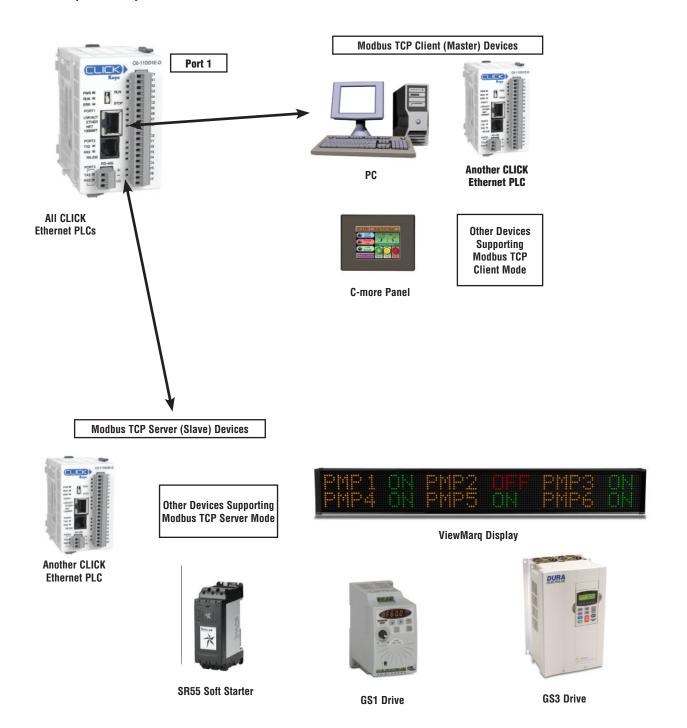
WARNING: The following *Direct*LOGIC PLC devices cannot be used with a CLICK PLC's Port 1 or Port 2: Handheld Programmer for DL05, DL06, DL105, DL205 & D3-350 CPUs, p/n D2-HPP Handheld Programmer for DL405 CPUs, p/n D4-HPP-1 Timer/Counter Access for DL05, DL06, DL105, DL205, DL405 & D3-350 CPUs, p/n DV-1000







Port 1 (Ethernet) - Modbus TCP

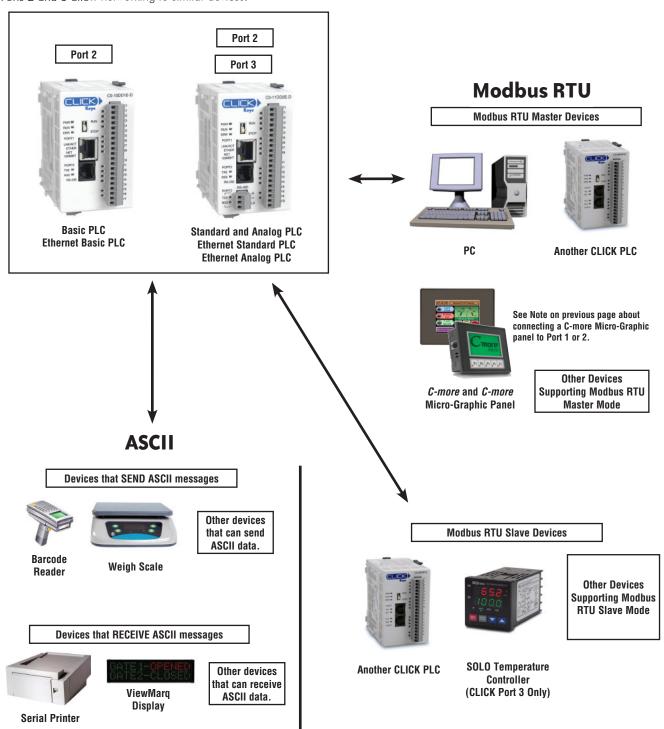




Port 2 (RS-232) - Modbus RTU or ASCII

Port 3 (RS-485; Standard, Analog, Ethernet Standard and Ethernet Analog PLCs) – Modbus RTU or ASCII

All PLCs have RS-232 port 2, but only Standard, Analog, Ethernet Standard and Ethernet Analog PLCs have RS-485 port 3. Ports 2 and 3 allow networking to similar devices.



Power Supplies

Power Supplies

The CLICK PLC family offers two 24 VDC power supplies. They are identical except for the output current.

It is not mandatory to use one of these CLICK power supplies for the CLICK PLC system. You can use any other 24 VDC power supply that Automationdirect.com offers, including the PSP24-DC12-1 12 VDC to 24 VDC converter shown below.

C0-00AC Power Supply

Limited auxiliary AC power supply allows you to power the 24 VDC CLICK CO series PLCs with 100-240 VAC supply power. The 0.5A DC power supply is capable of controlling the PLC plus a limited configuration based on the power budget of each I/O module. The CO-00AC is a low-cost solution for applications requiring only minimal I/O and power consumption. This power supply will not support a fully-populated CLICK PLC system with all possible I/O module combinations.

C0-01AC Power Supply

Expanded auxiliary AC power supply allows you to power the 24 VDC CLICK CO series PLCs with 100-240 VAC supply power. The 1.3A DC power supply is capable of supporting a fully-populated CLICK PLC system with all possible I/O module combinations, with no concerns for exceeding the power budget.

PSP24-DC12-1 DC-DC Converter

With this DC-DC converter you can operate the CLICK PLC with 12 VDC input power.



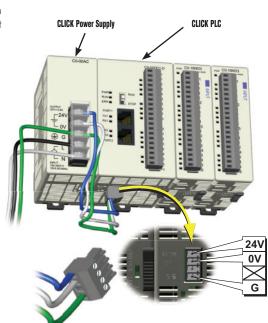
PSP24-DC12-1

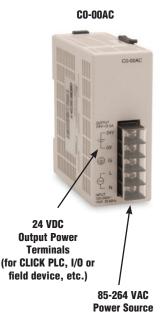
CLICK 24 VDC Power Supply Ratings				
Part Number Output Current				
CO-OOAC	0.5 A			
CO-01AC 1.3 A				

CO-OOAC Power Supply Specifications			
Input Voltage Range	85-264 VAC		
Input Frequency	47-63 Hz		
Input Current (typical) 0.3 A @ 100 VAC, 0.2 A @ 200 VAC			
Inrush Current 30 A			
Output Voltage Range 23-25 VDC			
Output Current 0.5 A			
Over Current Protection @ 0.65 A (automatic recovery)			
Weight 5.3 oz (150g)			

CO-01AC Power Supply Specifications				
Input Voltage Range	85-264 VAC			
Input Frequency	47-63 Hz			
	0.9 A @ 100 VAC, 0.6 A @ 200 VAC			
Inrush Current	30 A			
Output Voltage Range	23-25 VDC			
Output Current	1.3 A			
Over Current Protection	@ 1.6 A (automatic recovery)			
Weight	6.0 oz (170g)			

PSP24-DC12-1 DC-DC	Converter Specifications	
Input Voltage Range	9.5-18 VDC	
Input Power (no load)	1.0 W max.	
Startup Voltage	8.4 VDC	
Undervoltage Shutdown	7.6 VDC	
Output Voltage Range	24-28 VDC (adjustable)	
Output Current	1.0 A	
Short Circuit Protection	Current limited at 110% typical	
Weight	7.5 oz (213g)	





CO-01AC

Input Terminals



24 VDC power is supplied to the PLC unit through wiring connected from the power supply output to the 4-pin 24 VDC input connector located on the bottom of the PLC unit.

Power Budgeting

Power Budgeting

There are two areas to be considered when determining the power required to operate a CLICK PLC system. The first area is the power required by the CLICK PLC, along with the internal logic side power that the CPU provides to its own I/O and any connected I/O modules that are powered through the PLC expansion port; plus any device, such as a C-more Micro-Graphic panel, that is powered through one of the communications ports.

The second area is the power required by all externally connected I/O devices. This should be viewed as the field side power required. The field side power is dependent on the voltage used for a particular input or output device as it relates to the wired I/O point, and the calculated load rating of the connected device.

It is strongly recommended that the power source for the logic side be separate from the power source for the field side to help eliminate possible electrical noise.

Power budgeting requires the calculation of the total current the 24 VDC power source needs to provide to CLICK's logic side, and also a separate calculation of the total current required for all devices operating from the field side of the PLC system.

Refer to the Power Budgeting example shown on the following page. The table shows required current for a CLICK PLC, two I/O modules, and a C-more Micro. Use the total amperage values to select the properly sized power supply.





CLICK 24 VDC Power Supply CO-00AC or CO-01AC



Other 24 VDC Power Supply Example: PSP24-60S

Power Consumption for CLICK PLC Units

PLC Current Consumption (mA)				
Part Number	Power Budget 24 VDC (logic side)	External 24 VDC (field side)		
	Basic PLC Units	S		
CO-00DD1-D	120	60		
CO-00DD2-D				
CO-OODR-D	120	0		
CO-00AR-D				
	andard PLC Un			
CO-01DD1-D	140	60		
CO-01DD2-D				
C0-01DR-D	140	0		
CO-01AR-D				
A	nalog PLC Unit	is		
CO-02DD1-D	140	60		
CO-02DD2-D	140	0		
C0-02DR-D		ŭ		
	rnet Basic PLC	Units		
CO-10DD1E-D	120	60		
CO-10DD2E-D				
CO-10DRE-D	120	0		
CO-10ARE-D				
Ethernet Standard PLC Units				
CO-11DD1E-D	140	60		
CO-11DD2E-D				
CO-11DRE-D	140	0		
C0-11ARE-D				

PLC Current Consumption (mA)			
Part Number	Power Budget 24 VDC (logic side)	24 VDC	
Etherno	et Analog PLC L	Jnits	
CO-12DD1E-D	140	60	
CO-12DD2E-D	140		
CO-12DRE-D	160	0	
CO-12ARE-D	100		
CO-12DD1E-1-D	140	60	
CO-12DD2E-1-D	140		
CO-12DRE-1-D	160	0	
CO-12ARE-1-D	100		
CO-12DD1E-2-D	140	60	
CO-12DD2E-2-D	140		
CO-12DRE-2-D	160	0	
CO-12ARE-2-D	140		

Power Budgeting

Power Consumption for CLICK I/O Expansion Modules

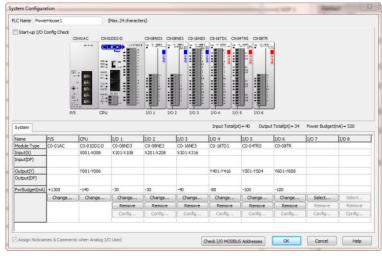
I/O Module Current Consumption (mA)		
Part Number	Power Budget 24 VDC (logic side)	24 VDC
Disc	rete Input Mod	ules
CO-08ND3	30	0
CO-08ND3-1	30	0
CO-16ND3	40	0
CO-08NE3	30	0
CO-16NE3	40	0
CO-08NA	30	0
Disc	rete Output Mo	dules
CO-08TD1	50	15
CO-08TD2	50	0
CO-16TD1	80	100
CO-16TD2	80	0
CO-08TA	80	0
CO-04TRS	100	0
C0-08TR	100	0

Power	Budgeting Using the
CLICK	Programming Software

The CLICK Programming software can also be used for power budgeting. Based on the amperage rating of the power supply selected in the first column, your power budget is calculated by subtracting each consecutive module's power consumption from the total available power budget. If you exceed the maximum allowable power consumption the power budget row is highlighted in red.

Power Supply (C0-01AC) PLC Module (C0-16ND3)	I
Port 1 or Port 2	
C-more	
Micro-Graphic Panel Only monochrome models can be powered from port 1 or 2.	

I/O Module Current Consumption (continued) (mA)					
Part Number	Power Budget 24 VDC (logic side)	24 VDC			
Discre	te Combo I/O M	lodules			
CO-16CDD1	80	50			
CO-16CDD2	80	0			
CO-08CDR	80	0			
Ana	log Input Modu	iles			
CO-04AD-1	20	65			
CO-04AD-2	23	65			
CO-04RTD	25	0			
CO-04THM	25	0			
Ana	log Output Mod	ules			
CO-04DA-1	20	145			
CO-04DA-2	20	85			
	g Combo I/O Me	odules			
CO-4AD2DA-1	25	75			
CO-4AD2DA-2	20	65			
C-more Micro-Graphic Panel					
Monochrome only	90	0			



Power Budgeting Example

Current Consumption (mA) Example					
Part Number	Power Budget 24 VDC (logic side)	External 24 VDC (field side)			
CO-00DD1-D	120	60			
CO-16ND3	40	0			
CO-16TD1	80	100			
C-more Micro	90	0			
Total:	330	160*			
* Add in calculated load of connected I/O devices.					



Wiring System for CLICK PLCs

Wiring Solutions using the **ZIP**Link Wiring System

ZIPLinks eliminate the normally tedious process of wiring between devices by utilizing prewired cables and DIN rail mount connector modules. It's as simple as plugging in a cable connector at either

end or terminating wires at only one end. Prewired cables keep installation clean and efficient, using half the space at a fraction of the cost of standard terminal blocks. ZIPLinks are available in a variety of styles to suit your needs, including feedthrough connector module. ZIPLinks are available for all Basic, Standard and Ethernet CLICK PLC units and

most discrete and analog I/O modules. Pre-printed I/O-specific adhesive label strips for quick marking of *ZIP*Link modules are provided with *ZIP*Link cables.



Solution 1: CLICK PLC and I/O Modules to ZIPLink Connector Modules

When looking for quick and easy I/O-to-field termination, a *ZIP*Link connector module used in conjunction with a prewired *ZIP*Link cable, consisting of an I/O terminal block at one end and a multipin connector at the other end, is the best solution.

Solution 2: CLICK PLC and I/O Modules to 3rd Party Devices

When wanting to connect I/O to another device within close proximity of the I/O modules, no extra terminal blocks are necessary when using the *ZIP*Link Pigtail Cables. *ZIP*Link Pigtail Cables are prewired to an I/O terminal block with color-coded pigtail with soldered-tip wires on the other end.

Solution 3: GS Series and DuraPulse Drives Communication Cables

Need to communicate via Modbus RTU to a drive or a network of drives?

ZIPLink cables are available in a wide range of configurations for connecting to PLCs and SureServo, SureStep, Stellar Soft Starter and AC drives. Add a ZIPLink communications module to quickly and easily set up a multi-device network.

Solution 4: Serial Communications Cables

ZIPLink offers communications cables for use with CLICK PLCs that can also be used with other communications devices. Connections include a 6-pin RJ12 connector which can be used in conjunction with the RJ12 Feedthrough module.

Use the "CLICK PLC PLC Unit *ZIP*Link Selector" table and CLICK I/O *ZIP*Link selector tables located in this section:

- 1. Locate your PLC or I/O module.
- 2. Select a ZIPLink Module.
- 3. Select a corresponding ZIPLink Cable.

Use the I/O Modules to 3rd Party Devices selector tables located in the *ZIP*Link section:

- 1. Locate your PLC or I/O module.
- 2. Select a *ZIP*Link Pigtail Cable that is compatible with your 3rd party device.



Use the Drives Communication selector tables located in the *ZIP*Link section:

- 1. Locate your Drive and type of communications.
- 2. Select a ZIPLink cable and other associated hardware.





Use the Serial Communications Cables selector table located in the *ZIP*Link section:

- 1. Locate your connector type
- 2. Select a cable.





ZIPIN Wiring System for CLICK PLCs

CLICK PLC <i>ZIP</i> Link Selector					
PLC ZIPLink					
PLC Unit	# of Terms	Component	Module Part No.	Cable Part No.	
C0-00DD1-D					
C0-00DD2-D					
C0-00DR-D					
C0-00AR-D	20	Feedthrough	ZL-RTB20	ZL-C0-CBL20 *	
C0-01DD1-D		i eeuiiiougii	ZL-MIDZU	ZL-GO-GBLZO	
C0-01DD2-D					
C0-01DR-D					
C0-01AR-D					
C0-02DD1-D					
C0-02DD2-D		No ZIP Links are av	ailable for Analog	PLC units.	
C0-02DR-D				·	
C0-10DD1E-D					
C0-10DD2E-D			ZL-RTB20	ZL-C0-CBL20 *	
CO-10DRE-D					
CO-10ARE-D	20	Feedthrough			
C0-11DD1E-D					
C0-11DD2E-D					
CO-11DRE-D					
CO-11ARE-D					
C0-12DD1E-D					
C0-12DD2E-D					
CO-12DRE-D					
C0-12ARE-D					
C0-12DD1E-1-D	7				
C0-12DD2E-1-D		7/01 into our or 11-1	ala fau Filannai Arr	lee DLOite	
C0-12DRE-1-D	T No	No ZIP Links are available for Ethernet Analog PLC units.			
C0-12ARE-1-D	7				
C0-12DD1E-2-D					
C0-12DD2E-2-D					
C0-12DRE-2-D					
C0-12ARE-2-D					

¹ Note: The CO-04TRS relay output is derated not to exceed 2A per point maximum when used with the ZIPLink wiring system.

CLICK PLC Discrete Input Module <i>ZIP</i> Link Selector				
I/O Module		<i>ZIP</i> Link		
Input Module	# of Terms	Component	Module Part No.	Cable Part No.
C0-08ND3	11	Feedthrough	ZL-RTB20	ZL-C0-CBL11 *
C0-08ND3-1				
C0-08NE3				
C0-08NA				
C0-16ND3	20	Feedthrough	ZL-RTB20	
C0-16ND3		Sensor	ZL-LTB16-24	71 00 001 00 *
00.40050	00	Feedthrough	ZL-RTB20	ZL-C0-CBL20 *
C0-16NE3	20	Sensor	ZL-LTB16-24	

CLICK PLC Discrete Output Module <i>ZIP</i> Link Selector				
1/0 1	Module	<i>ZIP</i> Link		
Output Module	# of Terms	Component	Module Part No.	Cable Part No.
C0-08TD1				ZL-C0-CBL11 *
C0-08TD2	11	Foodthrough	ZL-RTB20	
C0-08TR	11	Feedthrough	ZL-NIDZU	
C0-08TA				
		Feedthrough	ZL-RTB20	
C0-16TD1	20	Fuse	ZL-RFU20 ²	ZL-C0-CBL20*
		Relay (sinking)	ZL-RRL16-24-1	
	20	Feedthrough	ZL-RTB20	
C0-16TD2		Fuse	ZL-RFU20 ²	ZL-C0-CBL20 *
		Relay (sourcing)	ZL-RRL16-24-2	
C0-04TRS1	20	Feedthrough	ZL-RTB20	ZL-C0-CBL20 *

CLICK PLC Combo I/O Module <i>ZIP</i> Link Selector				
I/O M	odule	<i>ZIP</i> Link		
Combo Module	# of Terms	Component	Module Part No.	Cable Part No.
C0-16CDD1	20	Feedthrough	ZL-RTB20	ZL-C0-CBL20 *
C0-16CDD2	20	i eculiiougii	ZL-MIDZU	ZL-GU-GBLZU
C0-08CDR	11	Feedthrough	ZL-RTB20	ZL-C0-CBL11 *

CLICK PLC Analog I/O Module <i>ZIP</i> Link Selector					
I/O Mo	dule	<i>ZIP</i> Link			
Analog Module	# of Terms	Component Module Cable Part No. Part No.			
C0-04AD-1	11	Feedthrough	ZL-RTB20	ZL-C0-CBL11 *	
C0-04AD-2	11	Feedthrough	ZL-RTB20	ZL-C0-CBL11 *	
C0-04RTD	20	No ZIPLinks are	available for RTD and t	thermocouple	
C0-04THM	11	modules.			
C0-04DA-1	11	Feedthrough	ZL-RTB20	ZL-C0-CBL11 *	
C0-04DA-2	11	Feedthrough	ZL-RTB20	ZL-C0-CBL11 *	
C0-4AD2DA-1	20	Feedthrough	ZL-RTB20	ZL-C0-CBL20 *	
C0-4AD2DA-2	20	Feedthrough	ZL-RTB20	ZL-C0-CBL20 *	

^{*} Select the cable length by replacing the * with: Blank = 0.5m, -1 = 1.0m, or -2 = 2.0m.

 $^{^2}$ Note: Fuses (5 x 20 mm) are not included. See Edison Electronic Fuse section for (5 x 20 mm) fuse. \$500 and GMA electronic circuit protection for fast-acting maximum protection. S506 and GMC electronic circuit protection for time-delay performance. Ideal for inductive circuits.

To ensure proper operation, do not exceed the voltage and current rating of ZIPLink module. ZL-RFU20 = 2A per circuit.