CLICK CPU Module Specifications

CLICK

DI 205 PLC

DL405 PLC

Field I/O

Software

C-more

Other HMI

AC Drives

Motors

Steppers/ Servos

Motor Controls

Proximity

Photo Sensors

Limit Switches

Encoders

Current Sensors

Pushbuttons/ Lights

Process

Relays/ Timers

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TB's & Wiring

Power

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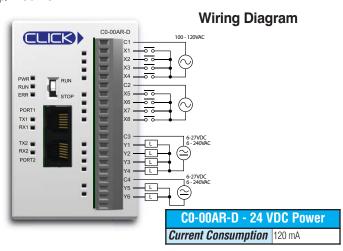
Part Index

C0-00AR-D

8 AC Inputs/6 Relay Outputs

CLICK PLC CPU, 8 AC input/6 Relay output, 8K steps total program memory, Ladder Logic programming, built-in RS232C programming port and additional RS232C Modbus RTU/ASCII communications port (configurable up to 115200 baud). Inputs: 8-pts 100-120 VAC, 2 commons, isolated. Outputs: 6-pts 6-240 VAC/6-27 VDC Form A (SPST) relays, 1 A/pt,

2 commons, isolated. Removable terminal block included, replacement ADC p/n C0-16TB.



ON Voltage Level > 60 VAC OFF Voltage Level < 20 VAC Minimum ON Current 5 mA 2 mA Maximum OFF Current OFF to ON Response < 40 ms ON to OFF Response < 40 ms Status Indicators Logic Side (8 points, green LED) **Commons** 2 (4 points/common) Isolated CO-OOAR-D Built-in I/O Specifications - Outputs Outputs per Module Operating Voltage Range 6-240 VAC (47-63 Hz), 6-27 VDC Output Type Relay, form A (SPDT) 1 A/point; C3: 4 A/common, C4: 2 A/common Maximum Current Minimum Load Current 5 mA @ 5 VDC

3 A for 10 ms

Logic Side (6 points, red LED)

Typical Relay Life (Operations)

at Room Temperature Voltage & Load Type | Load Current: 1 A

ON to OFF = 1 cycle

2 (4 points/com & 2 points/com) Isolated

300,000 cycles

50,000 cycles

500,000 cycles

200,000 cycles

< 15 ms

< 15 ms

30 VDC Resistive

30 VDC Solenoid

250 VAC Resistive

250 VAC Solenoid

CO-OOAR-D Built-in I/O Specifications - Inputs

100-120 VAC

80-144 VAC

15 k**Ω** @ 50 Hz 12 k**Ω** @ 60 Hz

8.5 mA @ 100 VAC at 50 Hz 10 mA @ 100 VAC at 60 Hz

16 mA @ 144 VAC at 55 Hz

47-63 Hz

Inputs per Module

AC Frequency

Input Current

Input Impedance

Input Voltage Range

Maximum Input Current

Maximum Inrush Current

OFF to ON Response

ON to OFF Response

Status Indicators

Commons

Operating Voltage Range

8 —	_	_	Inputs		
6			Inputs		
4			Outputs		
4					
2					
+				 	
0	-	-		 \neg	

INPUT VX2-X4 commons Optical Isolator 100-120 VAC Typical	Internal Module Circuitry Optical Isolator Typical Com Com Optical Isolator
C2 COM To X8-X8 Commons Equivalent Output Circuit	INPUT Optical Isolator X5-X8 100-120 VAC I Typical To X6-X8 commons

Equivalent Input Circuit

Internal Module Circuitry COM To Y2-Y4 6-27 VDC

ZipLink Pre-Wired PLC Connection Cables and Modules ZL-RTB20 20-pin feed-through

CLICK Specifications



CLICK PLC

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PL	C		

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LICK

General specifications (all CLICK PLC products)

These general specifications apply to

These general specifications apply to all CLICK CPUs, optional I/O modules, and optional power supply products. Please refer to the appropriate I/O temperature derating charts under both the CPU and I/O module specifications to determine best operating conditions based on the ambient temperature of your particular application.

Environmental Specifications		
Operating Temperature	32°F to 131°F (0°C to 55°C) IEC 60068-2-14 (Test Nb, Thermal Shock)	
Storage Temperature	-4°F to 158°F (-20°C to 70°C) IEC 60068-2-1 (Test Ab, Cold) IEC 60068-2-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Thermal Shock)	
Ambient Humidity	30% to 95% relative humidity (non-condensing)	
Environmental Air	No corrosive gases The level for the environmental pollution is 2 (UL840)	
Vibration	MIL STD 810C, Method 514.2 IEC60068-2-6 JIS C60068-2-6 (Sine wave vibration test)	
Shock	MIL STD 810C, Method 516.2 IEC60068-2-27 JIS C60068-2-27	
Noise Immunity	Comply with NEMA ICS3-304 Impulse noise 1µs, 1000V EN61000-4-2 (ESD) EN61000-4-3 (RFI) EN61000-4-4 (FTB) EN61000-4-5 (Surge) EN61000-4-6 (Conducted) EN61000-4-8 (Power frequency magnetic field immunity) RFI: No interference measured between 150-450MHz (5w/15cm)	
Emissions	EN55011:1998 Class A	
Agency Approvals	UL508 CE (EN61131-2)	
Other	RoHS instruction conformity	

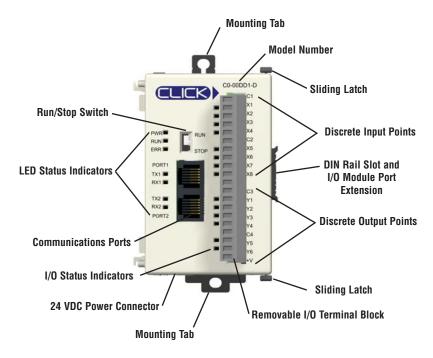
CPU module specifications

These specifications apply to all the CPU modules.

CPU Module Speci	
Control Method	Stored Program/Cyclic execution method
I/O Numbering System	Fixed in Decimal
Ladder Memory (steps)	8000
Total Data Memory (words)	8000
Contact Execution (boolean)	< 0.6us
Typical Scan (1k boolean)	1-2 ms
RLL Ladder Style Programming	Yes
Run Time Edits	No
Scan	Variable / fixed
CLICK Programming Software for Windows	Yes
Built-in Communication Ports (RS-232)	Yes (2)
FLASH Memory	Standard on CPU
Built-in Discrete I/O points	8 inputs, 6 outputs
Number of Instructions Available	21
Control Relays	2000
Special Relays (system defined)	1000
Timers	500
Counters	250
Immediate I/O	Yes
Interrupts (external / timed)	Yes
Subroutines	Yes
For/Next Loops	Yes
Math (Integer and Floating Point)	Yes
Drum Sequencer Instruction	Yes
Internal Diagnostics	Yes
Password Security	Yes
System Error Log	Yes
User Error Log	Yes
Memory Backup	Super Capacitor
Battery Backup	No
I/O Terminal Block Replacement	ADC p/n C0-16TB
AC Power Terminal Block Replacement	ADC p/n C0-4TB

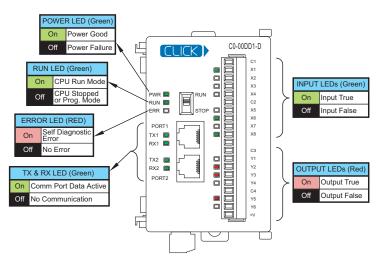
CLICK Specifications

CPU features



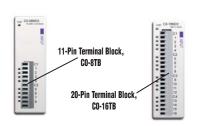
CPU LED status indicators

CLICK LED Status Indicators



I/O Terminal block specifications for CPUs and I/O Modules

	Block Specifications
Connector Type	Pluggable Terminal Block
Number of Pins	11 pt
Pitch	3.50 mm
Wire Range	28-16 AWG
Wire Strip Length	7 mm
Screw Size	M2.0
Screw Torque	2.0 to 2.2 lb-inch
ADC Part Number	CO-8TB



20-pin Terminal Block Specifications		
Connector Type	Pluggable Terminal Block	
Number of Pins	20 pt	
Pitch	3.50 mm	
Wire Range	28-16 AWG	
Wire Strip Length	7 mm	
Screw Size	M2.0	
Screw Torque	2.0 to 2.2 lb-inch	
ADC Part Number	C0-16TB	

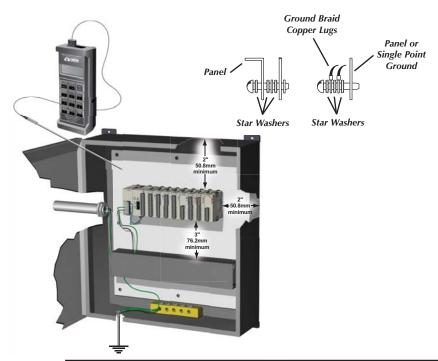
A-16 PLC Products 0 1 7 3 7 - 8 2 4 6 0 0

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. The CO-USER-M is the publication for the CLICK PLC. This user manual contains important safety information that must be followed. The system installation should comply with all appropriate electrical codes and standards.



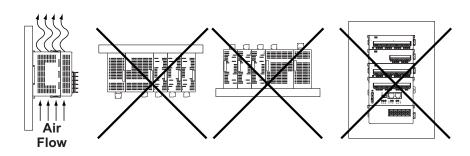


NOTE: There is a mimimum clearance requirement of 2" (51 mm) between the CLICK PLC and the panel door or any devices mounted in the panel door. The same clearance is required between the PLC and any side of the enclosure. A minimum clearance of 3" (76 mm) is required between the PLC and a wireway or 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.



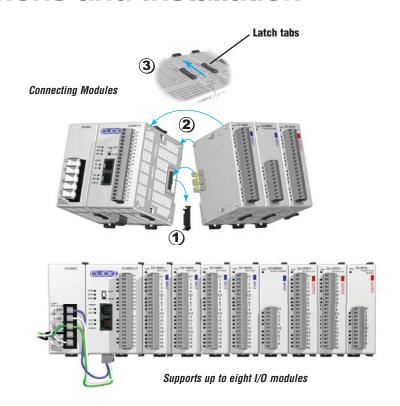
A-6 PLC Products 0 1 7 3 7 - 8 2 4 6 0 0

Product Dimensions and Installation

Connecting the modules together

CLICK CPUs, 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 CPU.
- 3) Slide the latch tabs backward to lock the modules together.

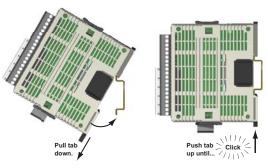


Mounting

The CLICK PLC system, which includes the CLICK power supplies, CPU modules, 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.

DIN Rail Mounting



Surface Mounting



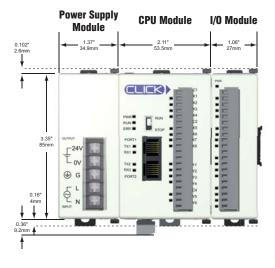
Unit dimensions

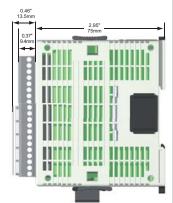
These diagrams show the outside dimensions of the CLICK power suppy, CPU, and I/O modules. The CLICK PLC system is designed to be mounted on standard 35mm DIN rail, or it can be surface mounted.

Allow proper spacing from other components within an enclosure.

Maximum system:

Power Supply + CPU + 8 I/O modules.





Utomation Direct

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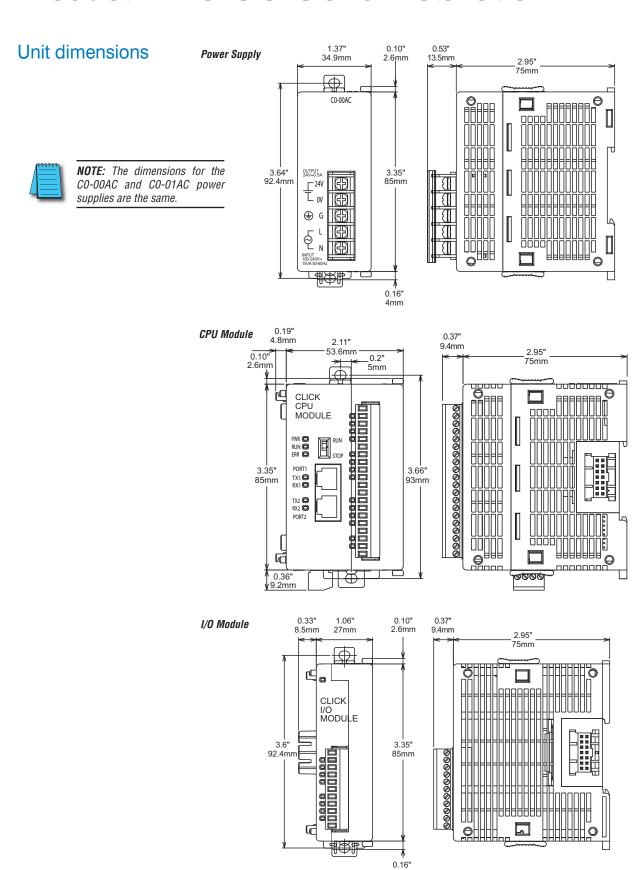
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Product Dimensions and Installation



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4mm