

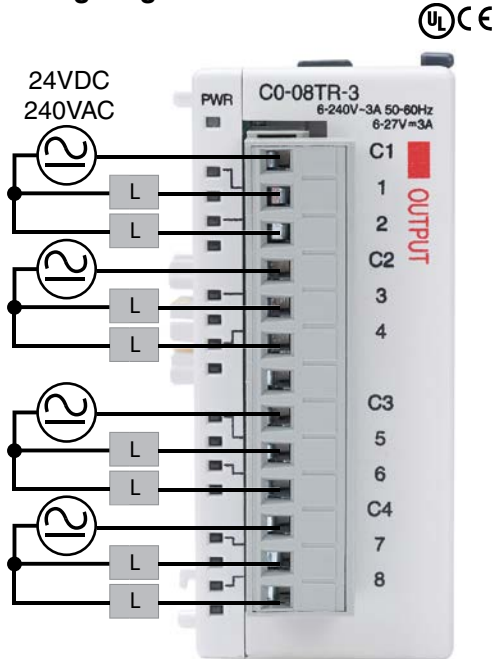
# CLICK Stackable I/O Module Specifications

**C0-08TR-3**      **\$49.00**

## 8-Point Relay Output Module

8-point 6-27 VDC/6-240 VAC relay output module, 8 Form A (SPST) relays, 4 commons, isolated, 3 A/point, removable terminal block included (replacement AutomationDirect p/n [C0-8TB-1](#)).

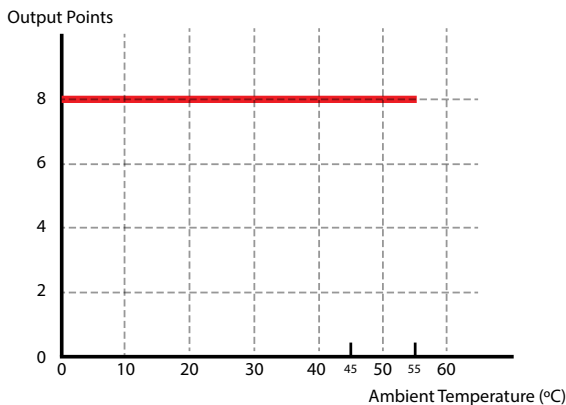
### Wiring Diagram



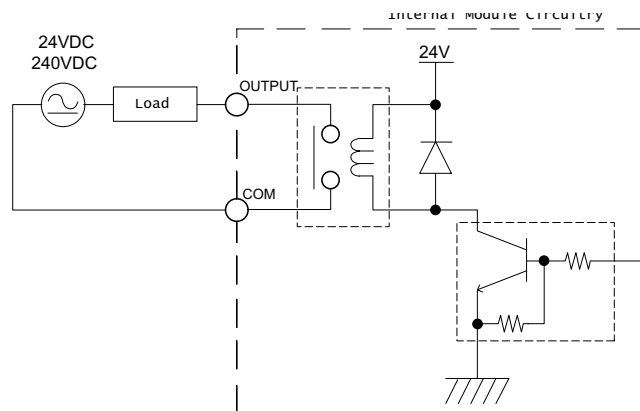
Output Specifications	
<b>Outputs per Module</b>	8
<b>Operating Voltage Range</b>	6-27 VDC / 6-240 VAC
<b>Peak Voltage</b>	30 VDC / 264 VAC
<b>Output type</b>	Relay, form A (SPST)
<b>AC Frequency</b>	47-63 Hz
<b>Maximum Current (resistive)</b>	3A/point, 6A/common
<b>Minimum Load Current</b>	5mA @ 5VDC
<b>Maximum Inrush Current</b>	5A for 10ms
<b>OFF to ON Response</b>	< 15ms
<b>ON to OFF Response</b>	< 15ms
<b>Status Indicators</b>	Logic Side (8 points, red LED) Power Indicator (green LED)
<b>Commons</b>	4 (2 points/common)
<b>Bus Power Required (24VDC)</b>	Max. 90mA (All Outputs On)
<b>Protection Circuit</b>	Not built into the module - Install protection elements such as external fuse
<b>Terminal Block Replacement</b>	AutomationDirect p/n <a href="#">C0-8TB-1</a>
<b>Weight</b>	4.1 oz (117g)

Typical Relay Life (Operations) at Room Temperature	
Voltage & Load Type	Relay Life
24VDC, 3A Resistive	100,000 cycles
24VDC, 3A Inductive	50,000 cycles
110VAC, 3A Resistive	100,000 cycles
110VAC, 3A Inductive	25,000 cycles
220VAC, 3A Resistive	100,000 cycles
220VAC, 3A Inductive	25,000 cycles
ON to OFF = 1 cycle	

Output Temperature Derating Chart



Equivalent Output Circuit



# CLICK Stackable I/O Module Specifications

## General Specifications For All CLICK Stackable I/O Modules

These general specifications apply to all CLICK Stackable I/O Modules. Please refer to the appropriate I/O temperature derating charts under the PLC (CLICK PLC with built-in I/O), Option Slot module (CLICK PLUS only), and Stackable I/O module specification to determine best operating conditions based on the ambient temperature of your particular application.



**NOTE:** These modules are available to use with CLICK or CLICK PLUS systems.

General Specifications	
<b>Operating Temperature</b>	Analog, analog combo I/O modules only: 32°F to 140°F (0°C to 60°C); All other modules: 32°F to 131°F (0°C to 55°C), IEC 60068-2-14 (Test Nb, Thermal Shock)
<b>Storage Temperature</b>	-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)
<b>Ambient Humidity</b>	30% to 95% relative humidity (non-condensing)
<b>Environmental Air</b>	No corrosive gases. Environmental pollution level is 2 (UL840)
<b>Vibration</b>	MIL STD 810C, Method 514.2, EC60068-2-27, Category [f], Procedure[VIII] JIS C60068-2-27 (Sine wave vibration test)
<b>Shock</b>	MIL STD 810C, Method 516.2, IEC60068-2-27, JIS C60068-2-27, Category [f], Procedure[VIII]
<b>Noise Immunity</b>	<EN61131-2> 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)  <Local Test> Impulse noise 1μs, 1000V RFI: No interference measured at 150 and 450 MHz (5w/15cm)
<b>Emissions</b>	EN55011:1998 Class A; EN61000-6-4:2007+A1:2011
<b>Agency Approvals</b>	UL508, UL61010-2-201 (File No. E157382, E316037); CE (EN61131-2); CUL Canadian C22.2
<b>Other</b>	RoHS 2011/65/EU Amendment (EU)2015/863

# Power Budgeting

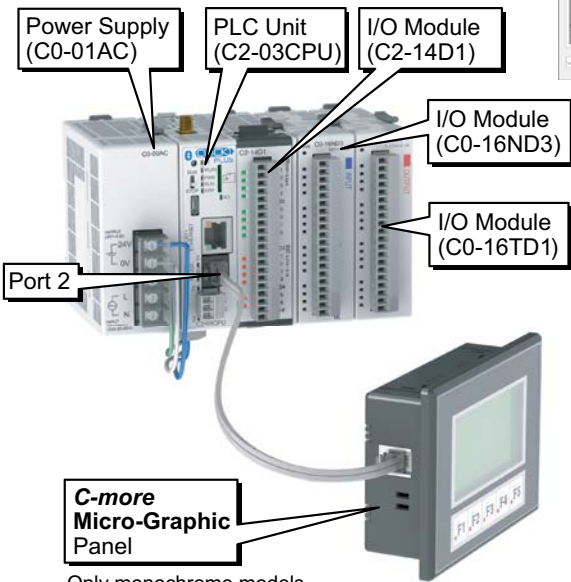
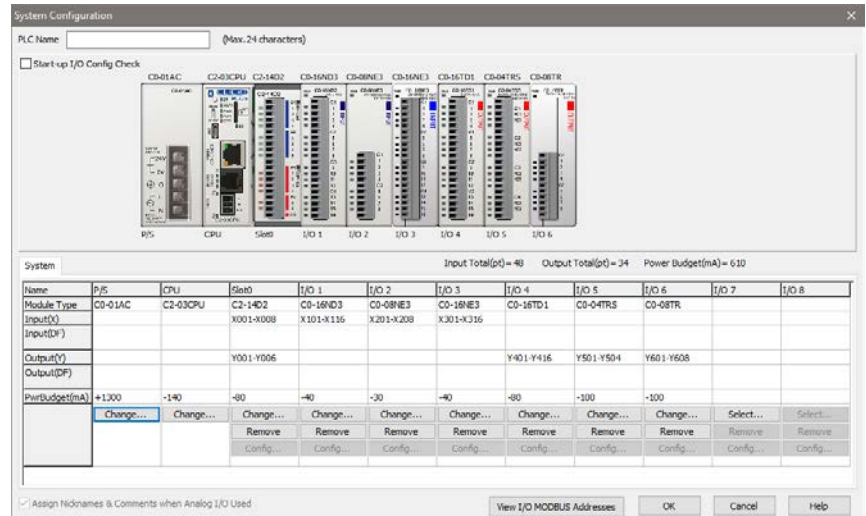
## Power Consumption for CLICK Stackable I/O Modules

I/O Module Current Consumption (mA)		
Part Number	Power Budget 24VDC (logic side)	External 24VDC (field side)
<b>Discrete Input Modules</b>		
<i>CO-08SIM</i>	50	0
<i>CO-08ND3</i>	30	0
<i>CO-08ND3-1</i>	30	0
<i>CO-16ND3</i>	40	0
<i>CO-08NE3</i>	30	0
<i>CO-16NE3</i>	40	0
<i>CO-08NA</i>	30	0
<b>Discrete Output Modules</b>		
<i>CO-08TD1</i>	50	15
<i>CO-08TD2</i>	50	0
<i>CO-16TD1</i>	80	100
<i>CO-16TD2</i>	80	0
<i>CO-08TA</i>	80	0
<i>CO-04TRS</i>	100	0
<i>CO-04TRS-10</i>	120	0
<i>CO-08TR</i>	100	0
<i>CO-08TR-3</i>	90	0

I/O Module Current Consumption (continued) (mA)		
Part Number	Power Budget 24VDC (logic side)	External 24VDC (field side)
<b>Discrete Combo I/O Modules</b>		
<i>CO-16CDD1</i>	80	50
<i>CO-16CDD2</i>	80	0
<i>CO-08CDR</i>	80	0
<b>Analog Input Modules</b>		
<i>CO-04AD-1</i>	20	65
<i>CO-04AD-2</i>	23	65
<i>CO-04RTD</i>	25	0
<i>CO-04THM</i>	25	0
<b>Analog Output Modules</b>		
<i>CO-04DA-1</i>	20	145
<i>CO-04DA-2</i>	20	85
<b>Analog Combo I/O Modules</b>		
<i>CO-4AD2DA-1</i>	25	75
<i>CO-4AD2DA-2</i>	20	65
<b>C-more Micro-Graphic Panel</b>		
<b>Monochrome only</b>	90	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.



Only monochrome models can be powered from port 2.

### Power Budgeting Example

Current Consumption (mA) Example		
Part Number	Power Budget 24VDC (logic side)	External 24VDC (field side)
<i>C2-03CPU</i>	130	0
<i>C2-14D1</i>	50	60
<i>CO-16ND3</i>	40	0
<i>CO-16TD1</i>	80	100
<i>C-more Micro</i>	90	0
<b>Total:</b>	390	160 *

\* Add in calculated load of connected I/O devices.

# Accessories

**C2-USER-M**     \$0.00

## CLICK PLUS PLC Hardware User Manual

Manual covers all CLICK PLUS PLC and I/O module installation and wiring, specifications, error codes and troubleshooting guide. The CLICK PLUS PLC Hardware User Manual can be downloaded free at the *AutomationDirect* Web site; [www.automationdirect.com](http://www.automationdirect.com)



**C0-USER-M**     \$0.00

## CLICK PLC Hardware User Manual

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**C0-PGMSW**     \$11.00

## Programming Software CD-ROM

The programming software can be downloaded free at the *AutomationDirect* Web site, or the CD can be purchased from the *AutomationDirect* online Web store. [www.automationdirect.com](http://www.automationdirect.com)



**EA-MG-PGM-CBL**     \$46.50

## PC to Panel Programming Cable Assembly for C-more Micro-Graphic Panels and CLICK/CLICK PLUS PLCs

The 6ft cable assembly connects a personal computer to any C-more Micro-Graphic panel, CLICK PLC, or select CLICK PLUS PLC for setup and programming.

**Note:** This cable assembly uses the PC's USB port and converts the signals to serial transmissions. The USB port supplies 5VDC to the Micro-Graphic panel for configuration operations.

Assembly includes standard USB A-type connector to B-type connector cable, custom converter, and a RS232C cable with RJ12 modular connector on each end.



**USB-CBL-AMICB6**     \$3.75

USB A to USB micro B Programming Cable Assembly (CLICK PLUS Only)

Programming Cable, USB A to USB micro B, 6ft. (1.83 m) length. For use with CLICK PLUS PLCs and most USB devices. The USB port supplies 5VDC to the CLICK PLUS CPU for programming.

**D2-DSCBL**     \$24.00

Programming Cable for CLICK/CLICK PLUS and *Direct* LOGIC PLCs 12ft. (3.66 m) RS232 shielded PC programming cable for CLICK, select CLICK PLUS PLCs, DL05, DL06, DL105, DL205, D3-350, D4-450, D4-454, and Do-more H2 and T1H series CPUs. 9-pin D-shell female connector to an RJ12 6P6C connector.



**Note:** If your PC has a USB port but does not have a serial port, you must use programming cable [EA-MG-PGM-CBL](#) to connect to CLICK PLCs. For CLICK PLUS PLCs, you may also use [USB-CBL-AMICB6](#)

**C0-3TB**     \$7.75

## Spare 3-Pole Terminal Block

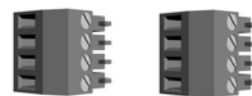
Replacement 3-pole terminal block for the 3-wire RS-485 Port 3 on CLICK Standard and Analog PLCs as well as the CLICK PLUS C2-03CPU. Sold in packs of 2.



**C0-4TB**     \$7.75

## Spare 24VDC Power Terminal Block

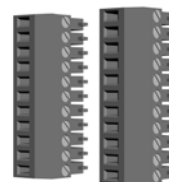
Replacement terminal block for the 24VDC supply power to the PLC. Sold in packs of 2.



**C0-8TB**     \$13.50

## Spare 8-Point I/O Terminal Block

Replacement terminal block for the 8-point I/O modules. Sold in packs of 2.



**C0-8TB-1**     \$15.00  
**Spare 13-Point I/O Terminal Block**

Replacement terminal block for the 8-point I/O relay modules. Sold in packs of 2.



**C0-16TB**     \$18.50

## Spare 16-Point I/O Terminal Block

Replacement terminal block for the 16-point I/O modules and PLC built-in I/O. Sold in packs of 2.

