

# CLICK PLUS Option Slot Module Specifications

## C2-08DR-4VC

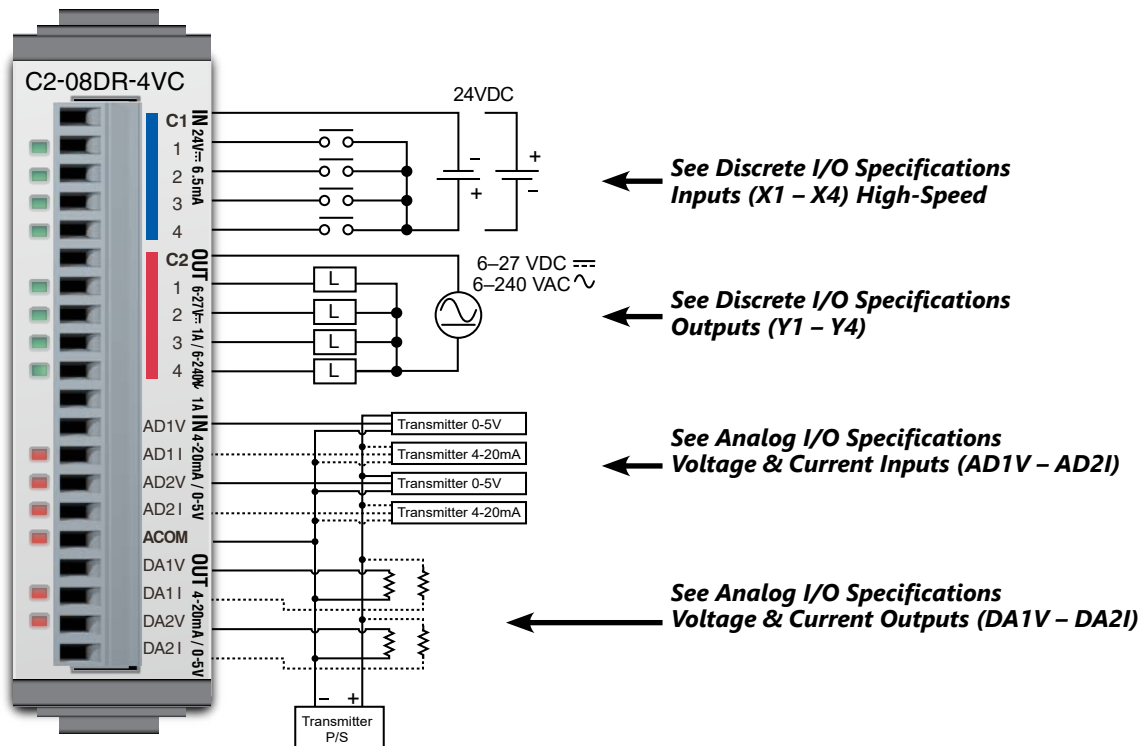
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**4 DC Input / 4 Relay Output**  
**2 Analog Voltage/Current Input**  
**2 Analog Voltage/Current Output**  
**Option Slot I/O Module**



**NOTE:** Use this module and a CLICK PLUS CPU as a comparable replacement for the existing C0-12DRE-D PLC.

### Wiring Diagram



**NOTE:** There are no **ZIPLink** pre-wired PLC connection cables and modules for the Analog Option Slot Modules (cannot mix discrete I/O and analog I/O signals in a **ZIPLink** cable).

### General Specifications

|                                            |                           |
|--------------------------------------------|---------------------------|
| <b>Current Consumption at 24VDC</b>        | 100mA max (All Points On) |
| <b>Terminal Block Replacement Part No.</b> | <a href="#">C0-16TB</a>   |
| <b>Drawing Link</b>                        | <a href="#">PDF</a>       |
| <b>Weight</b>                              | 58g                       |

# CLICK PLUS Option Slot Module Specifications

## C2-08DR-4VC (cont'd)

### X1 - X4 (High-Speed)

| Discrete I/O Specifications - Inputs |                                  |
|--------------------------------------|----------------------------------|
| <b>Inputs per Module</b>             | 4 (Source/Sink)                  |
| <b>Operating Voltage Range</b>       | 24VDC                            |
| <b>Input Voltage Range</b>           | 21.6–26.4 VDC                    |
| <b>Input Current</b>                 | Typ 6.5 mA @ 24VDC               |
| <b>Input Impedance</b>               | 3.9 kΩ @ 24VDC                   |
| <b>Input Frequency (Max)</b>         | X1-X4: 100kHz (3m cable)         |
| <b>ON Voltage Level</b>              | > 19VDC                          |
| <b>OFF Voltage Level</b>             | < 2VDC                           |
| <b>Minimum ON Current</b>            | 4.5 mA                           |
| <b>Maximum OFF Current</b>           | 0.5 mA                           |
| <b>OFF to ON Response</b>            | Typ 3μs, Max 5μs                 |
| <b>ON to OFF Response</b>            | Typ 1μs, Max 3μs                 |
| <b>Status Indicators</b>             | Logic Side (4 points, green LED) |
| <b>Commons</b>                       | 1 (4 points/common)              |

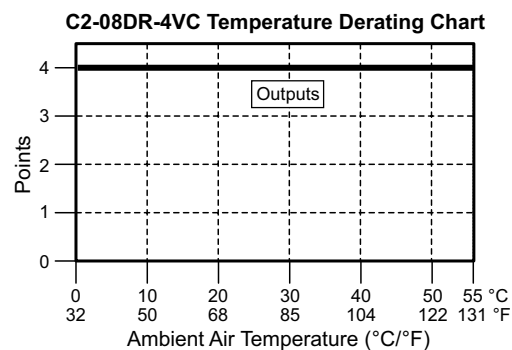
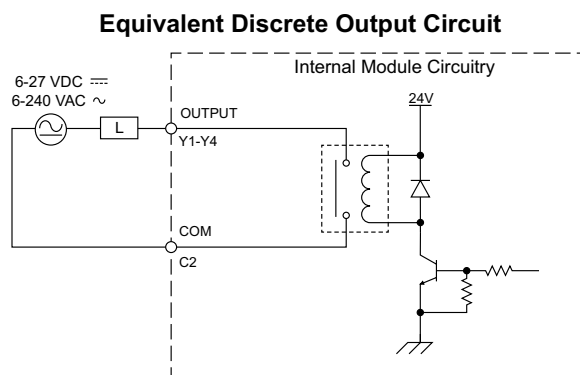
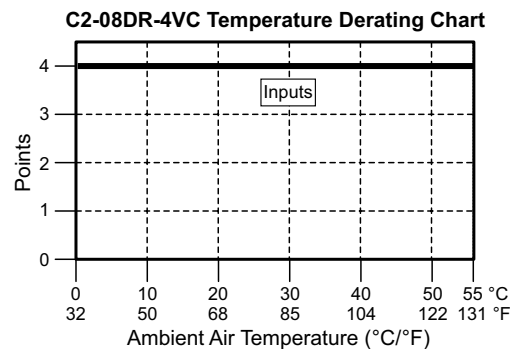
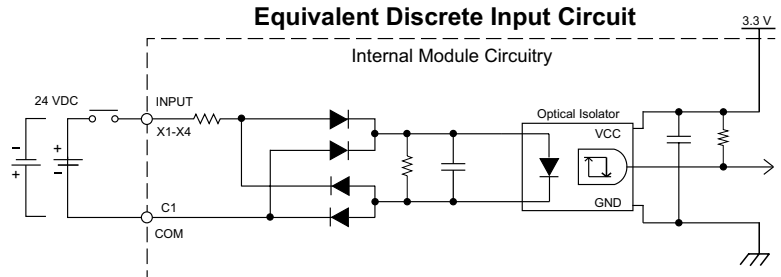
| Maximum Number of High Speed Counters |   |
|---------------------------------------|---|
| <b>Up</b>                             | 4 |
| <b>Down</b>                           | 4 |
| <b>Up/Down</b>                        | 2 |
| <b>Pulse/Direction</b>                | 2 |
| <b>Quadrature A-B</b>                 | 2 |
| <b>Quadrature A-B+Z</b>               | 1 |

### Y1 - Y4

| Discrete I/O Specifications - Outputs |                                |
|---------------------------------------|--------------------------------|
| <b>Outputs per Module</b>             | 4                              |
| <b>Operating Voltage Range</b>        | 6–27 VDC / 6–240 VAC           |
| <b>Output Type</b>                    | Relay, form A (SPST)           |
| <b>AC Frequency</b>                   | 47–63 Hz                       |
| <b>Maximum Current</b>                | 1A/point (resistive)           |
| <b>Minimum Load Current</b>           | 5mA @ 5VDC                     |
| <b>Maximum Inrush Current</b>         | 3A for 10ms                    |
| <b>OFF to ON Response</b>             | < 15ms                         |
| <b>ON to OFF Response</b>             | < 15ms                         |
| <b>Status Indicators</b>              | Logic Side (4 points, red LED) |
| <b>Commons per Module</b>             | 1 (4 points/ common)           |

| Typical Relay Life (Operations)<br>at Room Temperature |                   |
|--------------------------------------------------------|-------------------|
| Voltage & Load Type                                    | Load Current: 1 A |
| <b>30VDC Resistive</b>                                 | 200,000 cycles*   |
| <b>30VDC Inductive</b>                                 | 100,000 cycles*   |
| <b>250VAC Resistive</b>                                | 200,000 cycles*   |
| <b>250VAC Inductive</b>                                | 50,000 cycles*    |

\*ON to OFF = 1 cycle



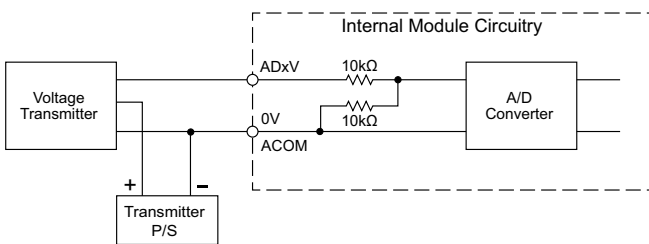
# CLICK PLUS Option Slot Module Specifications

## C2-08DR-4VC (cont'd)

### AD1V - AD2V

| Analog Specifications - Voltage Input |                                |
|---------------------------------------|--------------------------------|
| <b>Inputs per Module</b>              | 2 (voltage/current selectable) |
| <b>Input Range</b>                    | 0–5 VDC (6VDC Max.)            |
| <b>Resolution</b>                     | 12-bit                         |
| <b>Conversion Time</b>                | 50ms                           |
| <b>Input Impedance</b>                | 20kΩ                           |
| <b>Input Stability</b>                | ±2 LSB maximum                 |
| <b>Full-Scale Calibration Error</b>   | ±2% maximum                    |
| <b>Offset Calibration Error</b>       | ±25mV maximum                  |
| <b>Accuracy vs. Temperature Error</b> | ±100ppm/°C maximum             |

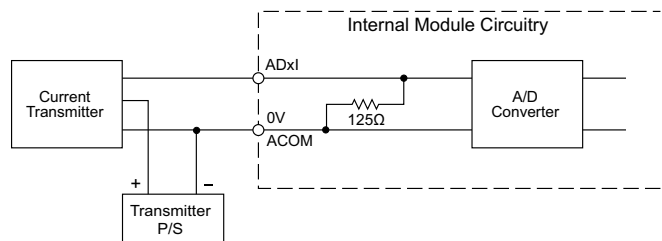
Analog Voltage Input Circuit



### AD1I - AD2I

| Analog Specifications - Current Input |                                |
|---------------------------------------|--------------------------------|
| <b>Inputs per Module</b>              | 2 (voltage/current selectable) |
| <b>Input Range</b>                    | 4–20 mA (sink)                 |
| <b>Resolution</b>                     | 12-bit                         |
| <b>Conversion Time</b>                | 50ms                           |
| <b>Input Impedance</b>                | 125Ω                           |
| <b>Input Stability</b>                | ±2 LSB maximum                 |
| <b>Full-Scale Calibration Error</b>   | ±2% maximum                    |
| <b>Offset Calibration Error</b>       | ±0.1 mA maximum                |
| <b>Accuracy vs. Temperature Error</b> | ±100ppm/°C maximum             |

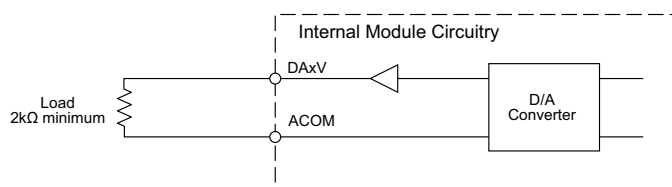
Analog Current Input Circuit



### DA1V - DA2V

| Analog Specifications - Voltage Output |                                             |
|----------------------------------------|---------------------------------------------|
| <b>Outputs per Module</b>              | 2 (voltage/current selectable)              |
| <b>Output Range</b>                    | 0–5 VDC                                     |
| <b>Resolution</b>                      | 12-bit                                      |
| <b>Conversion Time</b>                 | 1ms                                         |
| <b>Load Impedance</b>                  | 2kΩ minimum (output current 2.5 mA maximum) |
| <b>Full-Scale Calibration Error</b>    | ±2% maximum                                 |
| <b>Offset Calibration Error</b>        | ±25mV maximum                               |
| <b>Accuracy vs. Temperature Error</b>  | ±100ppm/°C maximum                          |

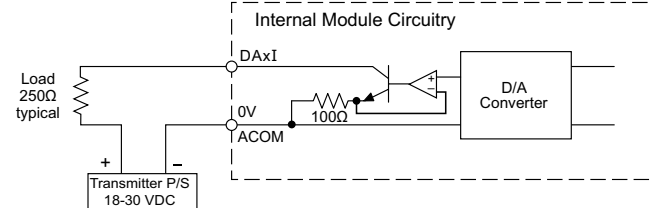
Analog Voltage Output Circuit



### DA1I - DA2I

| Analog Specifications - Current Output |                                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Outputs per Module</b>              | 2 (voltage/current selectable)                                                                      |
| <b>Output Range</b>                    | 4–20 mA (sink)                                                                                      |
| <b>Resolution</b>                      | 12-bit                                                                                              |
| <b>Conversion Time</b>                 | 1ms                                                                                                 |
| <b>Loop Supply Voltage</b>             | DC 18–30 V                                                                                          |
| <b>Load Impedance</b>                  | 250Ω<br>Load Power Supply:<br>DC 18V: 600Ω maximum<br>DC 24V: 900Ω maximum<br>DC 30V: 1200Ω maximum |
| <b>Full-Scale Calibration Error</b>    | ±2% maximum                                                                                         |
| <b>Offset Calibration Error</b>        | ±25mA maximum                                                                                       |
| <b>Accuracy vs. Temperature Error</b>  | ±100ppm/°C maximum                                                                                  |

Analog Current Output Circuit



# CLICK PLUS Option Slot Module Specifications

## C2-08DR-4VC (cont'd)

**Insulation Requirements for IEC/UL 61010-1 and 61010-2-201 (sections 6.5 and 6.7)**

**Input to Output Insulation**

Basic insulation is provided between the Relay Output and the closest Input terminal. When connecting the Relay Output to a circuit that exceeds 100VAC (141VDC) more than the closest input circuit an additional basic insulation layer must be added to the input circuit.

**Additional Basic Insulation Examples**

- Supplementary Insulation: Interposing relay, additional insulating material,... (sec. 6.5.3)
- Automatic Disconnection of the Supply: Properly sized breaker (sec. 6.5.5)
- Current or Voltage Limiting device: Properly sized fuse (sec. 6.5.6)

Basic insulation requires a clearance distance of 1.5 mm or more, a creepage distance of 2.5 mm or more, and dielectric voltage withstand of 1500Vrms.

|                               |                  |
|-------------------------------|------------------|
| DC input                      | Internal circuit |
| Relay output                  |                  |
| Analog input<br>Analog output |                  |

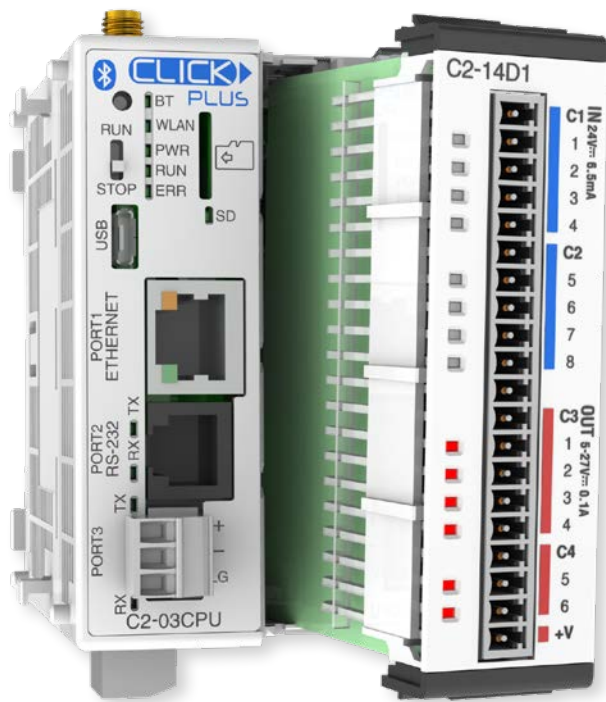
- : No insulation  
----- : Basic insulation  
———— : Reinforced insulation

# CLICK PLUS Option Slot Module Specifications

## General Specifications For All CLICK PLUS Option Slot Modules

These general specifications apply to all CLICK PLUS Option Slot Modules. Please refer to the appropriate I/O temperature derating charts under the Option Slot module and Stackable I/O module specifications to determine the best operating conditions based on the ambient temperature of your particular application.

| Option Slot Module General Specifications |                                                                                                                                                                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operating Temperature</b>              | 32°F to 131°F [0°C to 55°C]                                                                                                                                                                                           |
| <b>Storage Temperature</b>                | -4°F to 158°F [-20°C to 70°C]<br>IEC 60068-2-1 (Test Ab, Cold)<br>IEC 60068-2-2 (Test Bb, Dry Heat)<br>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>Environment</b>                        | For Indoor Use Only                                                                                                                                                                                                   |
| <b>Vibration</b>                          | IEC60068-2-6 (Test Fc)<br>5-9Hz:3.5mm amplitude, 9-150Hz 1.0G<br>10 sweep cycles per axis on each of 3 mutually perpendicular axes.                                                                                   |
| <b>Shock</b>                              | IEC60068-2-27 (Test Ea)<br>15G peak, 11ms duration, 3 shocks in each direction per axis, on 3 mutually perpendicular axes.                                                                                            |
| <b>Noise Immunity</b>                     | <EN61131-2><br>EN61000-4-2 (ESD)<br>EN61000-4-3 (RFI)<br>EN61000-4-4 (FTB)<br>EN61000-4-6 (Conducted)<br>EN61000-4-8 (Power frequency magnetic field immunity)<br><Local Test><br>Impulse Immunity: 1000V @ 1uS pulse |
| <b>Emissions</b>                          | EN55011 Class A (Radiated RF emission)                                                                                                                                                                                |
| <b>Agency Approvals</b>                   | UL61010 (File No. E157382); CE (EN61131-2);<br>CUL Canadian C22.2                                                                                                                                                     |
| <b>Other</b>                              | RoHS 2011/65/EU Amendment (EU)2015/863                                                                                                                                                                                |



# CLICK PLUS PLC Specifications

## CLICK PLUS PLC Hardware/Software Compatibility

The table below shows the minimum software and hardware versions required for the CLICK PLUS PLCs and Option Slot Modules. The CLICK PLUS PLC can also utilize the CLICK Stackable I/O Modules, as any software and hardware version compatible with CLICK PLUS is also compatible with the CLICK Stackable I/O Modules.

| CLICK PLUS PLC Features Software Compatibility |             |                                |                    |                     |             |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|------------------------------------------------|-------------|--------------------------------|--------------------|---------------------|-------------|-----------|-------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|
|                                                |             | Minimum CLICK Software Version |                    |                     |             |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
| Device Type                                    | Part Number | Hardware                       | High-Speed Inputs* | High-Speed Outputs* | EtherNet/IP | DHCP, DNS | SNTP  | PID, MQTT |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
| CLICK PLUS CPU                                 | C2-01CPU    | v3.00                          | v3.00              | v3.30               | v3.00       | v3.00     | v3.00 | v3.00     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-02CPU    |                                |                    |                     | N/A         |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-03CPU    |                                |                    |                     | v3.00       |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-01CPU-2  | v3.20                          | v3.20              |                     | v3.20       | v3.20     | v3.20 | v3.20     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-02CPU-2  |                                |                    |                     | N/A         |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-03CPU-2  |                                |                    |                     | v3.20       |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
| Option Slot I/O Modules                        | C2-14D1     | v3.00                          | v3.00              | v3.30               | N/A         | N/A       | N/A   | N/A       |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-14D2     |                                |                    | N/A                 |             |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-14DR     |                                | N/A                |                     |             |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-14AR     |                                |                    |                     |             |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-14TTL    | v3.70                          | v3.70              | v3.70               |             |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-08D1-4VC | v3.00                          | v3.00              | v3.30               |             |           |       |           | N/A | N/A | N/A | N/A |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-08D2-4VC |                                |                    | N/A                 |             |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-08DR-4VC |                                | N/A                |                     |             |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-08AR-4VC |                                |                    |                     |             |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-08D1-6C  | v3.00                          | v3.00              | v3.30               |             |           |       |           |     |     |     |     | N/A | N/A | N/A | N/A |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-08D2-6C  |                                |                    | N/A                 |             |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-08DR-6C  |                                | N/A                |                     |             |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-08AR-6C  |                                |                    |                     |             |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-08D1-6V  | v3.00                          | v3.00              | v3.30               |             |           |       |           |     |     |     |     |     |     |     |     | N/A | N/A | N/A | N/A |  |  |  |  |  |  |
|                                                | C2-08D2-6V  |                                |                    | N/A                 |             |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-08DR-6V  |                                | N/A                |                     |             |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-08AR-6V  |                                |                    |                     |             |           |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
| Option Slot Intelligent Modules                | C2-DCM      | v3.20                          | N/A                | N/A                 | N/A         | N/A       | N/A   | N/A       |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-NRED     | v3.70                          |                    |                     |             | v3.70     | v3.70 |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |
|                                                | C2-OPCUA    |                                |                    |                     |             | N/A       |       |           |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |

\* High-speed Inputs and Outputs are only available when the Option Slot I/O Module is installed in Slot 0.

# Power Budgeting

## Power Budgeting

There are two factors to consider when determining the power required to operate a CLICK PLC system. The first is the power required by the PLC and internal logic-side power provided through the PLC. This includes the CPU's own I/O, 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 to 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 24VDC power source needs to provide to CLICK's logic side. A separate calculation is required to determine 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 PLUS PLC, two I/O modules, and a **C-more** Micro. Use the total amperage values to select a suitable power supply.



**CLICK 24VDC Power Supply**  
C0-00AC or C0-01AC



**Other 24VDC Power Supply**  
Example: PSP24-060S

## Power Consumption for CLICK and CLICK PLUS PLC Units

| PLC Current Consumption (mA) |                                       |                                   |
|------------------------------|---------------------------------------|-----------------------------------|
| Part Number                  | Power Budget<br>24VDC<br>(Logic Side) | External<br>24VDC<br>(Field Side) |
| Basic PLC Units              |                                       |                                   |
| <a href="#">C0-00DD1-D</a>   | 120                                   | 60                                |
| <a href="#">C0-00DD2-D</a>   | 120                                   | 0                                 |
| <a href="#">C0-00DR-D</a>    |                                       |                                   |
| <a href="#">C0-00AR-D</a>    |                                       |                                   |
| Standard PLC Units           |                                       |                                   |
| <a href="#">C0-01DD1-D</a>   | 140                                   | 60                                |
| <a href="#">C0-01DD2-D</a>   | 140                                   | 0                                 |
| <a href="#">C0-01DR-D</a>    |                                       |                                   |
| <a href="#">C0-01AR-D</a>    |                                       |                                   |
| Analog PLC Units             |                                       |                                   |
| <a href="#">C0-02DD1-D</a>   | 140                                   | 60                                |
| <a href="#">C0-02DD2-D</a>   | 140                                   | 0                                 |
| <a href="#">C0-02DR-D</a>    |                                       |                                   |
| Ethernet Basic PLC Units     |                                       |                                   |
| <a href="#">C0-10DD1E-D</a>  | 120                                   | 60                                |
| <a href="#">C0-10DD2E-D</a>  | 120                                   | 0                                 |
| <a href="#">C0-10DRE-D</a>   |                                       |                                   |
| <a href="#">C0-10ARE-D</a>   |                                       |                                   |
| Ethernet Standard PLC Units  |                                       |                                   |
| <a href="#">C0-11DD1E-D</a>  | 140                                   | 60                                |
| <a href="#">C0-11DD2E-D</a>  | 140                                   | 0                                 |
| <a href="#">C0-11DRE-D</a>   |                                       |                                   |
| <a href="#">C0-11ARE-D</a>   |                                       |                                   |

| PLC Current Consumption (mA)  |                                       |                                   |
|-------------------------------|---------------------------------------|-----------------------------------|
| Part Number                   | Power Budget<br>24VDC<br>(Logic Side) | External<br>24VDC<br>(Field Side) |
| Ethernet Analog PLC Units     |                                       |                                   |
| <a href="#">C0-12DD1E-D</a>   | 140                                   | 60                                |
| <a href="#">C0-12DD2E-D</a>   |                                       | 0                                 |
| <a href="#">C0-12DRE-D</a>    | 160                                   |                                   |
| <a href="#">C0-12ARE-D</a>    |                                       |                                   |
| <a href="#">C0-12DD1E-1-D</a> | 140                                   | 60                                |
| <a href="#">C0-12DD2E-1-D</a> | 160                                   | 0                                 |
| <a href="#">C0-12DRE-1-D</a>  |                                       |                                   |
| <a href="#">C0-12ARE-1-D</a>  |                                       |                                   |
| <a href="#">C0-12DD1E-2-D</a> | 140                                   | 60                                |
| <a href="#">C0-12DD2E-2-D</a> | 160                                   | 0                                 |
| <a href="#">C0-12DRE-2-D</a>  |                                       |                                   |
| <a href="#">C0-12ARE-2-D</a>  |                                       |                                   |
| CLICK PLUS PLCs               |                                       |                                   |
| <a href="#">C2-01CPU</a>      | 110                                   | 0                                 |
| <a href="#">C2-01CPU-2</a>    | 120                                   |                                   |
| <a href="#">C2-02CPU</a>      | 105                                   |                                   |
| <a href="#">C2-02CPU-2</a>    | 115                                   |                                   |
| <a href="#">C2-03CPU</a>      | 130                                   |                                   |
| <a href="#">C2-03CPU-2</a>    | 140                                   |                                   |

## Power Consumption for CLICK PLUS Option Slot Modules

| CLICK PLUS<br>Option Slot Modules<br>Current Consumption (mA) |                                       |                                   |
|---------------------------------------------------------------|---------------------------------------|-----------------------------------|
| Part Number                                                   | Power Budget<br>24VDC<br>(Logic Side) | External<br>24VDC<br>(Field Side) |
| <b>Option Slot I/O Modules</b>                                |                                       |                                   |
| <a href="#">C2-14D1</a>                                       | 50                                    | 60                                |
| <a href="#">C2-14D2</a>                                       | 50                                    | 0                                 |
| <a href="#">C2-14DR</a>                                       | 75                                    | 0                                 |
| <a href="#">C2-14AR</a>                                       | 75                                    | 0                                 |
| <a href="#">C2-14TTL</a>                                      | 220                                   | 0                                 |
| <a href="#">C2-08D1-4VC</a>                                   | 80                                    | 60                                |
| <a href="#">C2-08D2-4VC</a>                                   | 80                                    | 0                                 |
| <a href="#">C2-08DR-4VC</a>                                   | 100                                   | 0                                 |
| <a href="#">C2-08AR-4VC</a>                                   | 100                                   | 0                                 |
| <a href="#">C2-08D1-6C</a>                                    | 80                                    | 60                                |
| <a href="#">C2-08D2-6C</a>                                    | 80                                    | 0                                 |
| <a href="#">C2-08DR-6C</a>                                    | 100                                   | 0                                 |
| <a href="#">C2-08AR-6C</a>                                    | 100                                   | 0                                 |
| <a href="#">C2-08D1-6V</a>                                    | 80                                    | 60                                |
| <a href="#">C2-08D2-6V</a>                                    | 80                                    | 0                                 |
| <a href="#">C2-08DR-6V</a>                                    | 100                                   | 0                                 |
| <a href="#">C2-08AR-6V</a>                                    | 100                                   | 0                                 |
| <b>Option Slot Intelligent Modules</b>                        |                                       |                                   |
| <a href="#">C2-DCM</a>                                        | 60                                    | 0                                 |
| <a href="#">C2-NRED</a>                                       | 125                                   | 0                                 |
| <a href="#">C2-OPCUA</a>                                      | 125                                   | 0                                 |



# 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>       |                                 |                             |
| <a href="#">C0-08SIM</a>            | 50                              | 0                           |
| <a href="#">C0-08ND3</a>            | 30                              | 0                           |
| <a href="#">C0-08ND3-1</a>          | 30                              | 0                           |
| <a href="#">C0-16ND3</a>            | 40                              | 0                           |
| <a href="#">C0-08NE3</a>            | 30                              | 0                           |
| <a href="#">C0-16NE3</a>            | 40                              | 0                           |
| <a href="#">C0-08NA</a>             | 30                              | 0                           |
| <b>Discrete Output Modules</b>      |                                 |                             |
| <a href="#">C0-08TD1</a>            | 50                              | 15                          |
| <a href="#">C0-08TD2</a>            | 50                              | 0                           |
| <a href="#">C0-16TD1</a>            | 80                              | 100                         |
| <a href="#">C0-16TD2</a>            | 80                              | 0                           |
| <a href="#">C0-08TA</a>             | 80                              | 0                           |
| <a href="#">C0-04TRS</a>            | 100                             | 0                           |
| <a href="#">C0-04TRS-10</a>         | 120                             | 0                           |
| <a href="#">C0-08TR</a>             | 100                             | 0                           |
| <a href="#">C0-08TR-3</a>           | 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>               |                                 |                             |
| <a href="#">C0-16CDD1</a>                       | 80                              | 50                          |
| <a href="#">C0-16CDD2</a>                       | 80                              | 0                           |
| <a href="#">C0-08CDR</a>                        | 80                              | 0                           |
| <b>Analog Input Modules</b>                     |                                 |                             |
| <a href="#">C0-04AD-1</a>                       | 20                              | 65                          |
| <a href="#">C0-04AD-2</a>                       | 23                              | 65                          |
| <a href="#">C0-04POT</a>                        | 30                              | 0                           |
| <a href="#">C0-04RTD</a>                        | 25                              | 0                           |
| <a href="#">C0-04THM</a>                        | 25                              | 0                           |
| <b>Analog Output Modules</b>                    |                                 |                             |
| <a href="#">C0-04DA-1</a>                       | 20                              | 145                         |
| <a href="#">C0-04DA-2</a>                       | 20                              | 85                          |
| <b>Analog Combo I/O Modules</b>                 |                                 |                             |
| <a href="#">C0-4AD2DA-1</a>                     | 25                              | 75                          |
| <a href="#">C0-4AD2DA-2</a>                     | 20                              | 65                          |
| <b>C-more Micro-Graphic Panel</b>               |                                 |                             |
| <b>Monochrome only</b>                          | 90                              | 0                           |

System Configuration

PLC Name:  (Max. 24 characters)

☐ Start-up I/O Config Check

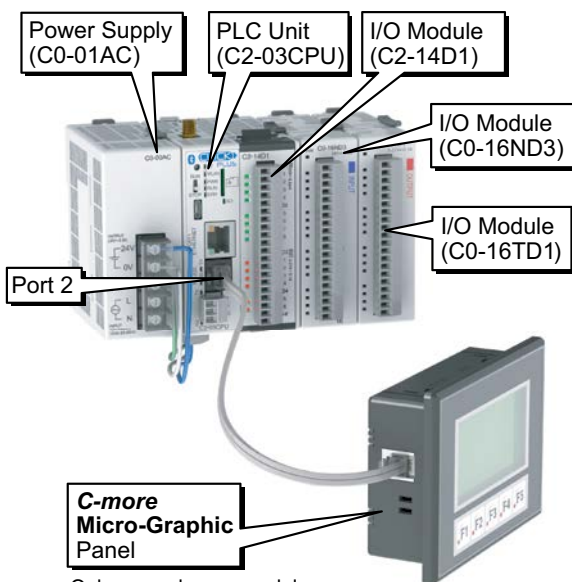
System Configuration Diagram:

System Configuration Table:

| Name             | P/S       | CPU       | Slot      | I/O 1     | I/O 2     | I/O 3     | I/O 4     | I/O 5     | I/O 6     | I/O 7     | I/O 8     |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Module Type      | C0-01AC   | C2-03CPU  | C2-14D2   | C0-16ND3  | C0-08NE3  | C0-16NE3  | C0-16TD1  | C0-04TRS  | C0-08TR   |           |           |
| Input(X)         |           |           | X001-X008 | X101-X116 | X201-X208 | X301-X316 |           |           |           |           |           |
| Output(Y)        |           |           | Y001-Y006 |           |           |           | Y401-Y416 | Y501-Y504 | Y601-Y608 |           |           |
| Power Budget(mA) | +1300     | -140      | -80       | -40       | -20       | -40       | -80       | -100      | -100      |           |           |
|                  | Change... | Change... | Change... | Change... | Change... | Change... | Change... | Change... | Change... | Select... | Select... |
|                  |           |           | Remove    | Remove    | Remove    | Remove    | Remove    | Remove    | Remove    | Remove    | Remove    |
|                  |           |           | Config... | Config... | Config... | Config... | Config... | Config... | Config... | Config... | Config... |

☒ Assign Nicknames & Comments when Analog I/O Used

View I/O MODBUS Addresses OK Cancel Help



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) |
| <a href="#">C2-03CPU</a>         | 130                             | 0                           |
| <a href="#">C2-14D1</a>          | 50                              | 60                          |
| <a href="#">C0-16ND3</a>         | 40                              | 0                           |
| <a href="#">C0-16TD1</a>         | 80                              | 100                         |
| <a href="#">C-more Micro</a>     | 90                              | 0                           |
| <b>Total:</b>                    | <b>390</b>                      | <b>160 *</b>                |

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



# Accessories

## **C2-USER-M**     **\$4pv\_:** **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**     **\$;c8t:** **CLICK PLC Hardware User Manual**

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



## **C0-PGMSW**     **\$0c8x:** **Programming Software USB**

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



## **EA-MG-PGM-CBL**     **\$-04j\_:** **PC to Panel Programming Cable Assembly for C-more Micro-Graphic Panels and CLICK/CLICK PLUS PLCs**

The 6-ft 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 an RS232C cable with an RJ12 modular connector on each end.



## **USB-CBL-AMICB6**     **\$-?ui:** **USB A to USB microB Programming Cable Assembly (CLICK PLUS Only)**

Programming cable, USB A to USB microB, 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**     **\$04nd:** **Programming Cable for CLICK/CLICK PLUS and DirectLOGIC 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](#)*

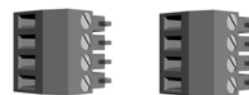
## **C0-3TB**     **\$0c8z:** **Spare 3-Pole Terminal Block**

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.



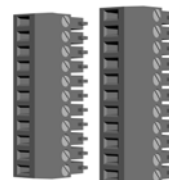
## **C0-4TB**     **\$;0c8j:** **Spare 24VDC Power Terminal Block**

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



## **C0-8TB**     **\$;0c8j:** **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**     **\$4ghv:** **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**     **\$0c8y:** **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.



## **C2-6TB**     **\$;58\_f:** **Spare 6-pt Terminal Block**

Replacement terminal block for the C2-DCM serial ports. Sold in packs of 2.

