

## CC - 2000

### Features:

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- 32 Bit RISC Processor
- 1-RS232 Port
- 1-RS232/RS485 Port
- Optional 10/100Base T Port
- Modbus RTU Master/Slave Communications
- Expandable I/O
- Preprogrammed Applications Such As:
  - A. Pump Control
  - B. VFD Pump Control
  - C. Tank RTU
  - D. Valve Control
  - E. Water Plant Filter Control
  - F. RTU Functionality for all applications
- Applications Configurable via User-Friendly Interface
- Integrated Hardware Watchdog Timer



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The CC - 2000 is a dedicated application controller with all the power of a custom programmed PLC, in a user-friendly configurable platform. Chase Controls dedicated controllers, are designed and preprogrammed with multiple water and wastewater applications, ranging from simple pump / wet well control to complex water plant filter control, all in a single compact footprint.

This 32-bit controller offers the power and performance required for real-time communications, with short program scan times, as well as a wide range of digital and analog interface options. The controllers industry standard Modbus RTU communications, can be configured as a Modbus RTU Master or Slave, which simplifies integration with any SCADA software, HMI touch screen, and other intelligent instrumentation.

The CC - 2000 provides flexible communication with 2 serial RS232/RS485 ports and for applications using an Ethernet LAN or WAN, a optional 10/100BaseT Ethernet port is available. For those challenging remote applications, the CC - 2000 supports connection over serial radio, Ethernet radio, cellular radio, and phone lines.

## Specifications

**Controller**

|                         |  |
|-------------------------|--|
| <b>Processor</b>        | CPU 32 Bit microcontroller, integrated watchdog timer                  |
| <b>Memory</b>           | 8 MB SRAM, 16 MB Flash ROM   |
| <b>Non Volatile RAM</b> | CMOS RAM w/ lithium battery retains contents for 2 years with no power |

**I/O**

|                    |                |       |                             |
|--------------------|----------------|-------|-----------------------------|
| <b>Digital IN</b>  | CC - 2000      | 20-52 | 90-120VAC, 47-63 Hz         |
|                    | CC - 2000-D    | 20-52 | 12-24VDC, Sink or Source    |
| <b>Digital OUT</b> | CC - 2000      | 16-48 | 6-240VAC / 6-27VDC, 2Amp    |
|                    | CC - 2000-D    | 16-48 | 6-240VAC / 6-27VDC, 2Amp    |
| <b>Analog IN</b>   | CC - 2000 / -D | 4-32  | 0-20ma, 4-20ma, 0-5V, 0-10V |
| <b>Analog OUT</b>  | CC - 2000 / -D | 4-32  | 0-20ma, 4-20ma, 0-10V       |

**Communications**

|                           |  |
|---------------------------|--|
| <b>Integrated Ports</b>   | 1—RS232 Serial, 6 Pin RJ-12, 1—RS232/RS485 15 Pin DB15HD |
| <b>Baud Rate</b>          | Selectable 300-38,400 baud                               |
| <b>Serial Protocols</b>   | Modbus RTU (Master / Slave)                              |
| <b>Optional</b>           | 10/100BaseT Ethernet, RJ-45                              |
| <b>Ethernet Protocols</b> | Modbus TCP/IP  |

**General**

|                    |   |
|--------------------|---|
| <b>Terminals</b>   | Removable Terminal Blocks, 16-22AWG, 15Amp Contacts |
| <b>Dimensions</b>  | 9.09 in wide X 5.0 in high X 2.56 in deep           |
| <b>Temperature</b> | -4 Deg F to + 158 Deg F                             |
| <b>Humidity</b>    | 5% RH to 95% RH, non-condensing                     |
| <b>Vibration</b>   | MIL STD 810C, Method 514.2                          |
| <b>Shock</b>       | MIL STD 810C, Method 516.2                          |
| <b>Power</b>       | CC - 2000 95-240VAC<br>CC - 2000-D 12-24VDC         |