



**Computer Weld
Technology, Inc.**

DMC-1000™

DC MOTOR CONTROL

DMC-1000™

The DMC-1000™ D C Motor Controller is a microprocessor based Direct Current Motor Controller designed to operate with Computer Weld Technology's WSC-1000™ Weld Sequence Controller. The D C Motor Controller can be used to interface direct current motor driven components such as wire feed and travel with the appropriate mechanical and electrical specifications to the WSC-1000™. When used with the Weld Sequence Controller, the DMC-1000™ receives position, velocity and speed command data from the WSC-1000™ by means of a Local Area Network (LAN) making the unit convenient and easy to install and simple to use. The internal 75 line Programmable Logic Controller (PLC) enables the user to configure the system to comply with the desired operational sequences.



Computer Weld Technology's DMC-1000™ D C Motor Controller can be used as a stand-alone control, when programmed directly from a personal computer or terminal, and has the capability of storing up to 75 PLC commands.

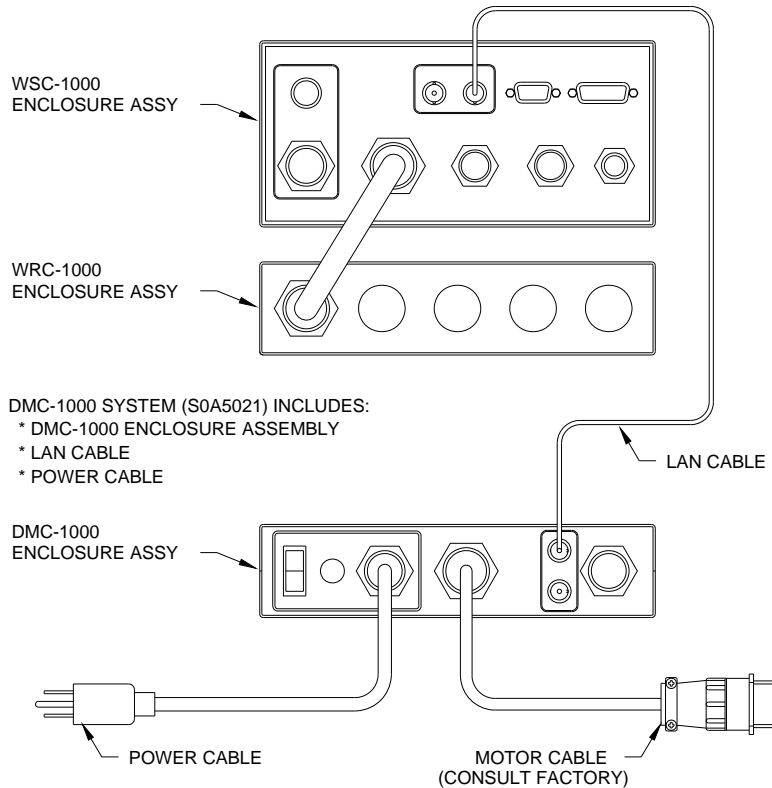
FEATURES

- 75 line PLC
- Compact / lightweight design
- RS-232-C Serial port or LAN connection
- Operates on Computer Weld Technology's LAN system
- Flexible design
- Automatic motor calibration capability

BENEFITS

- Permits user configuration of operational sequences
- Usable in confined areas
- Permits off-line programming, system configuration and remote control
- Provides expanded operational capability
- Can be interfaced with other manufacturer's equipment
- Facilitates ease of installation and operation

DMC-1000™ SPECIFICATIONS



MECHANICAL SPECIFICATIONS

General Specifications

| | |
|-------------------------------|--|
| Dimensions: | 2.0" H x 8.5" W x 11" L (51mm x 165mm x 280mm) |
| Mounting Dimensions: | 7.50" W x 8.50" L (4 ea. 10-32 blind hole fasteners) |
| Weight: | 4.5 lbs (2.00 kg) |
| Operating Temperature: | -10°F to +140°F (-23°C to +60°C) |

Electrical Specifications

| | |
|------------------------------|--|
| Power Input: | 120 VAC ± 10% @ 5.0 amps |
| Armature Current: | 0.5 - 3.0 amps |
| Armature Voltage: | 0 - 100 vdc |
| Field Current: | 2.0 amps maximum |
| Field Voltage: | 110 vdc nominal |
| Encoder Input: | 5 vdc or 15 vdc optical encoder 60 lines / RPM Max Frequency Input: 3.0 KHz |
| PLC Inputs: | 24 vdc @ 20ma (Active High) |
| Relay Outputs: | Dry Relay contact N.O. 115 vac @ 0.5 amps |
| CW / CCW Limit Input: | 5 - 36 vdc @ 5ma (Active High) |

Note: Specifications subject to change without notice.