



Single Phase AC Cascade Constant Current Controls

Cascade Firing of up to 8 Contactors

- Part of the EN6000 Series family with common hardware and programming
- 300 Amp air-cooled and 1200, 1800, 2200 & 3200 Amp water-cooled Contactors available
- Shorted contactor detection on all contactors
- Extremely flexible Heat Control allows 2 welds for every schedule programmed to Constant Current or Phase Shift Current on any contactor individually selectable
- 8 independent Valve Outputs control relay protected and monitored
- Standard I/O features provide additional 16 inputs and 8 outputs as compared to EN6021 Controls
- Similar in programming and operation to EN1000 Series Controls
- Only one Primary or Seconday Coil required





Communication software provides PC interface for USB or Ethernet interfaces.

Features

- USB B interface for ENLINK programming
- USB A Memory Stick Jack for Schedule backup
- USB A Memory Stick Jack for Weld Log and Error Log storage
- Spot or Pulsation Sequence
- Programmable options: Slope, Preheat, Quench, Temper, Postheat
- Linked Programs
- External Schedule Select
- Event Outputs
- Advanced Error Outputs
- 100 Programs
- Non-Repeat
- Water Saver Timer
- Programming in phase shift or kA

- 24 VDC flexible I/O (40 in/24 out); some mapable between weld functions, events and simple I/O sequences (32 in/ 24 out available for sequencer) with output protection
- I/O Sequencer/Programmer
- Stepper with Force and Current Presets
- Diverse schedule capabilities provide maximum application versatility
- 2) each 4-20 mA / 0-10V analog input & output provided for pressure sensing & control
- Program Select
- Weld Log (57,600 entries) and Error Log (1,000 entries) with real time clock
- · Shorted contactor detection

Constant Current

- Control adjusts current output every cycle.
- No setup necessary for constant current operation.
- When optional secondary or primary coil is used, secondary amps are directly displayed.
- Current High, Low and Pre limits.
- Results of last weld available immediately.
- Pulse Width Monitor

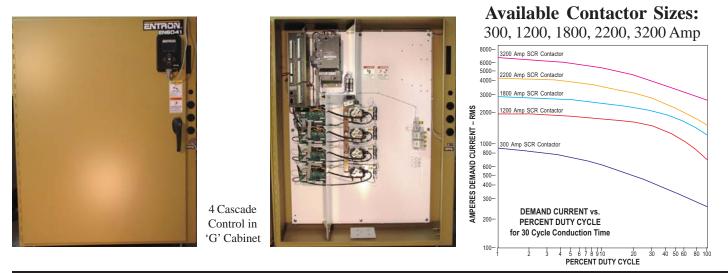
PLC Compatible

- PLC compatible via EtherNet/IP or MODBUS Function Code 04, 16 and 43 through low-cost serial (RS232 and RS485) or ethernet interfaces
- Design custom operator interface
- Actuate Weld Control Inputs from PLC, minimal interconnecting wires required
- Use weld control I/O for remote PLC I/O

Options

- Detachable 128 x 64 dots graphic (8 lines) LCD Program Pendant (RPP2) with data backup and 10' cable
- Primary or Secondary coils
- Program Lockout
- Operation Mode Switch (OMS) Program Lockout & Weld/No Weld
- Error Reset Switch (ERS)
- Pressure Sense & Proportional Valve
- Isolation Contactor
- GFI for portable guns
- Water Flow Switch
- RS232/485/Ethernet communication card
- USB Memory stick for backup
- Communication Services Controller

Exclusive ENTRON two year warranty



Options (Expanded Capabilities require additional software and/or hardware)

TO PROGRAM, YOU WILL NEED:

Program Pendant (RPP2) (P/N 730014-001) Detachable, hand-held pendant accesses all programmable variables and displays current and status.



- OR -**ENLINK 6041** (P/N 730015-001)

Communication software provides

PC interface for remote programming and monitoring of control.

TO MEASURE CURRENT IN AMPS, YOU WILL NEED:

Secondary Rogowski Coils (S5 - P/N 730014-005; S8 - P/N 730014-006) Available in 5" or 8" diameters. Provides actual secondary

amperage measurements. - OŔ -Coil as part of Weld

Transformer. OR -

Primary Coil (P/N 313022)

Communication Services Controller (CSC) (P/N 730014-016)

Provides bridge to ControlLogix, Web Browser ENLINK, and FTP Services



• Pressure Sense and Control Hardware

Using provided analog I/O or additional hardware: Differential sensors (P/N 730005-008)

Single-ended sensors (P/N 730005-005) Proportional valves: 1/2" port (P/N 730005-007)

11/4" port (P/N 730005-006)



• Operation Mode Switch (OMS) (P/N 730014-004)



- Program Lockout (PLS) (P/N 730014-009)
- **Error Reset Switch** (ERS) (P/N 730014-015)



• RS232 Printer (P/N 730014-011)



Water Flow Switch (P/N 730005-009)



• Communication Cards (P/N 730014-007 & 730014-013) Provides ability to network multiple controls using ENLINK 6041.



External USB & Ethernet **Connectors** (P/N 730014-002)



 Data storage on USB memory stick (P/N 730014-003)



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