

ENTRON™

Controls for Resistance Welding EN6021

Single Phase AC Constant Current Controls



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



ENLINK 6021

*Standard with
every control !*

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 storage
- Spot, Pulsation or Seam Sequence
- Programmable options: Slope, Preheat, Quench, Temper, Postheat
- Linked Programs
- External Schedule Select
- Event Outputs
- Advanced Error Outputs
- 100 Programs
- Repeat / Non-Repeat
- Water Saver Timer
- Programming in phase shift or kA
- 24 VDC flexible I/O (24 in/16 out); some mapable between weld functions, events and simple I/O sequences (16 in/16 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
- Retraction
- Weld Log (57,600 entries) and Error Log (1,000 entries) with real time clock
- PLC compatible via MODBUS
- Shorted contactor detection

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
- 16 DC in, 16 DC out and 4 AC out on I/O expansion card
- USB Memory stick for backup
- Linear Displacement Transducer
- Communication Services Controller

Exclusive ENTRON two year warranty

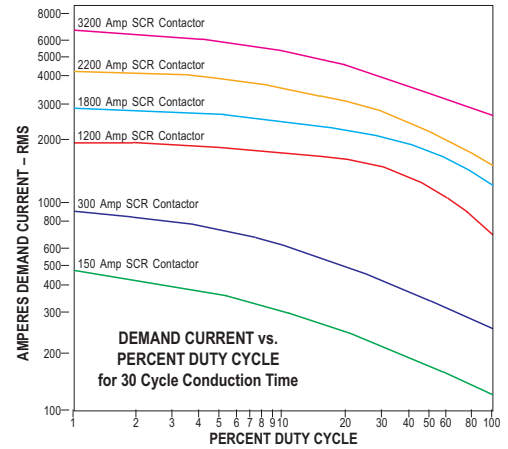
Now Available in L and N Cabinet Sizes

N Cabinet shown



Available Contactor Sizes:

150, 300, 1200, 1800, 2200, 3200 Amp



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 6021

(P/N 730014-010)

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.



- OR -

Coil as part of Weld Transformer.

- OR -

Primary Coil

(P/N 313022)



- **I/O Expansion Card**

(P/N 730014-008 & 730014-012)

Provides additional 16 DC inputs, 16 DC outputs and 4 AC outputs.



- **GFI for portable guns**

- **Water Flow Switch**

(P/N 730005-009)



- **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)

1 1/4" port (P/N 730005-006)

- **Data storage on USB memory stick**

(P/N 730014-003)

- **Operation Mode Switch (OMS)**

(P/N 730014-004)



- **Program Lockout (PLS)**

(P/N 730014-009)



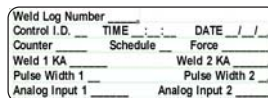
- **Error Reset Switch (ERS)**

(P/N 730014-015)



- **RS232 Printer**

(P/N 730014-011)



- **LDT Sensor**

(P/N 730014-014 - 6" Sensor; P/N 730014-051 - 11" Sensor)

Includes LDT Sensor, 12' Cable, Slide Magnet, and Straight Ball Joint.



- **Communication Services Controller (CSC)**

(P/N 730014-016)

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



- **Communication Cards**

(P/N 730014-007 & 730014-013)

Provides ability to network multiple controls using ENLINK 6021.



- **External USB & Ethernet Connectors**

(P/N 730014-002)



- **EN6021 Kit**

(P/N 730014-031)

Includes CPU, Power Supply, Fuses, Surge Resistors, Harness, Hardware, Labels, and Documentation for use in customer-supplied cabinet.

Distributed by:

ENTRON™

ENTRON Controls, LLC.
1402 S. Batesville Road
Greer, SC 29650
(864) 416-0190
FAX (864) 416-0195
www.entroncontrols.com
e-mail: info@entroncontrols.com

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