

Controls for Resistance Welding EN6021



Single Phase AC Constant Current Controls







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

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
- 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

Now Available in L and N Cabinet Sizes

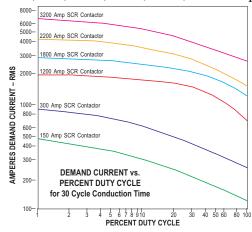
N Cabinet shown





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)



- PI/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:

½" port (P/N 730005-007) 1¼" port (P/N 730005-006)

- Data storage on USB memory stick (P/N 730014-003)
- Operation Mode Switch (OMS) (P/N 730014-004)



• 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)

(P/N 730014-016)
Provides bridge to
ControlLogix, Web Browser ENLINK,
and FTP Services

III

• 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: | | |
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