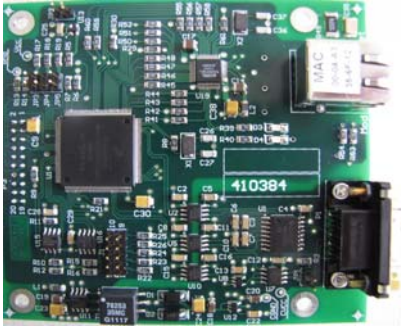


ENTRON™

Controls for Resistance Welding EN6000 Series Communication Card Options

EtherNet/IP and Modbus TCP – EIP/MBTCP Communication Card (730014-013)



Communication Protocols supported:

- EtherNet/IP
- Modbus TCP Function Code 04, 16 and 43

Modbus TCP or Modbus RTU – MBTCP/RTU Communication Card (730014-007)



Communication Protocols supported:

- Modbus Function Code 04, 16 and 43 through low-cost serial (RS232 and RS485) or Ethernet interfaces

Features Common to Both Options

- ENLINK over Ethernet
- Design custom operator interface
- Actuate Weld Control Inputs from PLC, minimal interconnecting wires required
- Use weld control I/O for remote PLC I/O
- **EN6021 Controls**
 - 24 VDC I/O (16 in/16 out) on CPU; for use as remote I/O for PLC
 - 24 VDC I/O (16 in/16 out) and 4 AC out on I/O Expansion Card; for use as remote I/O for PLC
- **EN6041 Controls**
 - 24 VDC I/O (32 in/24 out) on CPU; for use as remote I/O for PLC
- Display on operator interface panels: Secondary amps, Current High, Low and Pre limits
- Remote PLC Program Select of 100 Programs
- Remote access to Weld Log (57,600 entries) and Error Log (1,000 entries)
- Advanced Error Outputs mappable to PLC



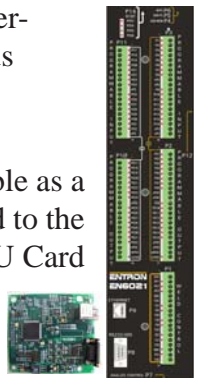
ENLINK
Standard with every control !

Communication software provides PC interface for Ethernet interfaces using Modbus

ENLINK 6021 – P/N 730014-001

ENLINK 6041 – P/N 730015-001

Field installable as a daughter card to the EN6000 Series CPU Card



Exclusive ENTRON two year warranty

EN6000 Series Communication Card Options Specifications

Date: April 2014

Supercedes: March 2013

EtherNet/IP and Modbus TCP – EIP/MBTCP Communication Card (730014-013)

Designed to complement and conform to ODVA EtherNet/IP standard

Weld Control parameters read and written via Explicit Commands

Remote I/O read and write via Explicit Commands

Simple interface to Allen-Bradley ControlLogix, Pro-face Touch Screens, Automation Direct C-more and other EIP devices

Ethernet: 10/100 BaseT; Speed: Autodetect 10/100 Mb; Connector: RJ45

Implements Ethernet communication via Modbus TCP/IP protocol

Ethernet: 10/100BASE-T; Speed: Autodetect 10/100 Mb; Connector: RJ45

Supported Modbus function codes

04 (0x04) Read Control setting and status

16 (0x10) Write Control settings

43 (0x2B) Encapsulated Interface – Read Control setting and status; Transport and write Control settings

Communications Manual fully documents option usage

Modbus TCP or Modbus RTU – MBTCP/RTU Communication Card (730014-007)

Implements RS232 and RS485 serial communication via Modbus RTU (Remote Terminal Unit) mode protocol

Control ID number: 1 through 99

Baud rate: 19200

Parity: EVEN

Mode: RTU

Coding system: 8-bit binary

Bits per byte: 1 start bit

8 data bits, least significant bit sent first

1 bit for parity completion

1 stop bit

Implements Ethernet communication via Modbus TCP/IP protocol

Ethernet: 10/100BASE-T; Speed: Autodetect 10/100 Mb; Connector: RJ45

Supported Modbus function codes

04 (0x04) Read Control setting and status

16 (0x10) Write Control settings

43 (0x2B) Encapsulated Interface – Read Control setting and status; Transport and write Control settings

Communications Manual fully documents option usage

Distributed by:

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