EAT•N
Powering Business Worldwide

C441 series communications modules

Monitoring and control made simple.

Eaton's motor control products offer the widest range of communication protocol support for **easy integration into any PLC or DCS system.**

Both starters and soft starters use the same C441 family of modules for communications. The **modules come standard with four inputs** and two relay outputs. C441 communication modules can also be used independently for standalone I/O applications.

More info on page 2.

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Features:
- Common C441 communication modules cover both traditional starter and solid-state reduced voltage starter applications
- C441 family modules provide support for multiple communication protocols
  - Modbus® RTU
  - Modbus TCP
  - DeviceNet™
  - PROFIBUS®
  - EtherNet/IP
- C441 communication modules come standard with four inputs and two outputs
- 120 Vac and 24 Vdc input options
- Each I/O module is optically isolated between the field I/O and the network adapter to protect the I/O and communication circuits from possible damage due to transients and ground loops
- Outputs support a user-definable safe state for loss of communication; hold last state, ON or OFF

Benefits:
- Provide communication, monitoring and control of motor starters and soft starters
- Input modules feature a user-definable input debounce that limits the effect of transients and electrical noise
- C441 DeviceNet modules contain backwards compatible I/O assemblies to legacy Advantage and *IT.* motor control platforms for seamless migration to newer starter technology
- C441 Ethernet modules offer embedded Web services for easy configuration and monitoring directly through Internet Explorer®
- Available for use as general purpose I/O, giving users the ability to monitor status of non-communicating products over their preferred network
- Unique locking mechanism provides for easy removal of the terminal block with the field wiring installed

The motor control center (MCC) is ready to be connected to your industrial network when it arrives.

Below is an image of the Eaton FlashGard® arc flash preventative MCC prewired for DeviceNet. Depending on the industrial network chosen, the prewired MCC will have a trunk drop–type configuration (DeviceNet), a daisy-chain configuration (PROFIBUS and Modbus) or an Ethernet configuration (Modbus TCP and EtherNet/IP). With any of these options, connecting your MCC is as easy as plugging in a lamp.

Pepco
Professional Electric Products Company

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PROFIBUS (C441Q/S/QS/SS)

C441Q/S **C441QS/SS Standalone**

- Capable of baud rates up to 12 Mb
- PROFIBUS address set via convenient DIP switches on the device
- LEDs display PROFIBUS status
- Configuration using common PROFIBUS tools

Modbus (C441M/N/P/NS/PS)

C441M (without I/O) **C441N/P (with I/O)** **C441NS/PS Standalone**

- Capable of baud rates up to 115 k
- Modbus address and baud rate set via convenient DIP switches on the device
- LEDs display Modbus traffic
- Configuration using common Modbus tools

DeviceNet (C441K/L/KS/LS)

C441K/L **C441KS/LS Standalone**

- Communication to DeviceNet uses only one DeviceNet MAC ID
- MAC ID and baud rate set via DIP switches on the device with an option to set from the network
- Configuration using common DeviceNet tools
- Contain backwards compatible I/O assemblies. See C441 DeviceNet notes below

EtherNet/IP and Modbus TCP (C441R/T/U/V)

C441R/T **C441U/V Standalone**

- Supports Modbus TCP or EtherNet/IP in a single device
- Contains an embedded two-port switch, allowing linear or ring network configurations
- Embedded Web services enable simple configuration and monitoring through Internet Explorer
- IP address set via convenient DIP switches on the device

Contact your Pepco Sales Rep for more information about these products.