

eCAP-9450

Multifunction Capacitor Controller



Based upon QEI's field proven 6ACP6 platform, the eCAP-9450 provides three-phase, single phase, 3-step, or 2-step capacitor bank control in a cost effective package.

When equipped with a suitable serial or TCP/IP based communication channel, the eCAP-9450 provides SCADA functionality via DNP3 or other current or legacy protocol from the 6ACP6 library in order to smoothly integrate with your larger distribution management system.

CONFIGWIZ® 2.0, our configuration software module, provides a user-friendly, drag-and-drop Windows® Interface for intuitive operation and faster training in order to get you up and running quickly.

The eCAP-9450 accepts voltage and current inputs from either line post sensors or PTs and CTs. Capacitor switching may be based on either voltage or kVAR, with a local voltage override option included, which has precedence over kVAR control. Neutral current detection is also present.

The +12VDC, 2.0A power supply provides power for both the 6ACP6 board itself and a user supplied radio. Six control relay outputs (each rated at 10A/250VAC) are arranged as 3 trip/close pairs for independent or ganged control of three cap bank switches. Front panel switches are included for Phases A,B,C open/close and auto/ manual, local/remote and lock-out.

Front panel LED indicators and multi-line readout are included for easy assessment of operation.



Front Panel LED Readout Permits Quick Review of Controller Operation Without the Need for a Laptop



NEMA 4, Front Access Enclosure for Easier Installation and Service

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SPECIFICATIONS

Input Power Requirement: 2.0 Amp @ 120 VAC, 60 Hz nominal, single phase

Note: eCAP-9450 includes +12Vdc power for radio equipment.
Actual input power requirement will vary based on radio usage.

Communications: One RS-232 / RS 485 and One RS-232 port for radio communications
Copper Ethernet and optional fiber port for TCP/IP communications
One fiber serial port communications interface
Various current (DNP3, Modbus, etc.) and legacy protocols available
Note: +12Vdc power for radio is included (+12Vdc nominal @ 2 A max)

Configuration: Windows 7 or 8 based ConfigWiz 2.0 can be used for controller setup locally or remotely through a TCP/IP connection.

Environmental: Temperature: 32 °F to 158 °F (0 °C to 70 °C)
Humidity: 0% to 95% @ 158 °F, non-condensing

Typical Configuration: Cold Rolled Steel, NEMA 4 front access enclosure
Dimensions (H x W x D): 24 x 20 x 10 inches
Weight: 80.0 lbs (36.4 kg)

Mounting: Wall or pole-top

CONTROLS AND INDICATIONS

- **Front Panel Switch Control:** A,B,C Phase A,B,C open/close, auto/manual, local/remote and lock-out. Multi-line LED readout and LED indicators for assessment of operation.
- **CommFail:** Revert to automatic local control if communications to the SCADA master station fails
- **Auto Control:** Fully automatic control based on internal user-defined switching algorithms
- **Lockout:** Failure detected - control operations blocked until reset either locally or from the SCADA master station

SAFETY

- Burnout protection blocks all switch operations until line voltage reaches an acceptable level
- Hunting protection to prevent excessive operations (user defined)
- Operation retry rate as well as the total number of attempts can be user limited
- Programmable time interval & retries for detecting neutral fault conditions

QEI, LLC
45 Fadem Road
Springfield, NJ 07081 USA
T: +973-379-7400
F: +973-379-2138
E: sales@qeinc.com
W: www.QEInc.com

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