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

Capacitor Controller

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 ºF to 158 ºF (0 ºC to 70 ºC) Humidity: 0% to 95% @ 158 ºF, non-condensing
Typical Configuration:	Cold Rolled Steel, NEMA 4 front access enclosure Dimensions (H x W x D): 20 x 16 x 8 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

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