

eCAP-9045

Multifunction Capacitor Controller

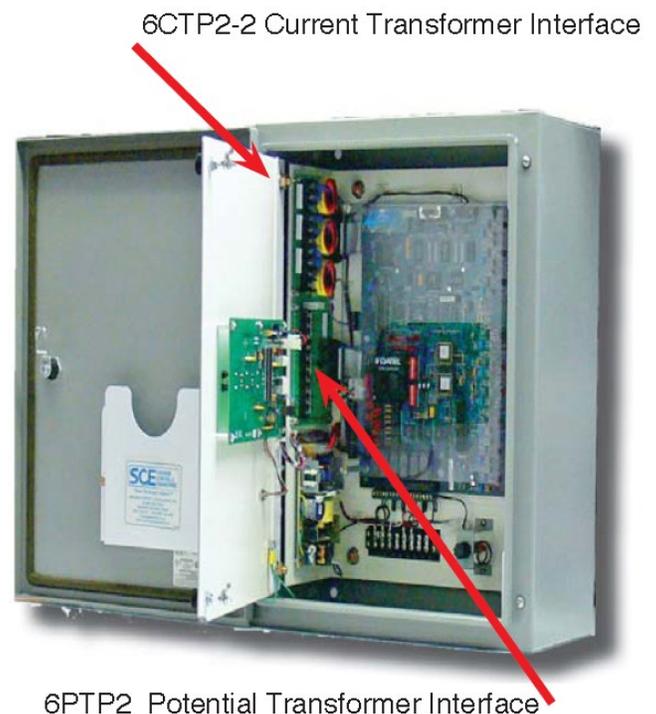
Large Library of Standard and Legacy Protocols

Based upon QEI's field proven 6ACP5 platform, the eCAP-9045 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, it provides SCADA functionality via DNP or any other current or legacy protocol from the 6ACP5 library to smoothly integrate with your larger distribution management system.

The eCAP-9045 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 6ACP5 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 indicators are included..



6PTP2 Potential Transformer Interface

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SPECIFICATIONS

Input power Requirement:	2.0 Amp @ 120 VAC, 60 Hz nominal, Single Phase Note: eCAP-9045 includes +12Vdc power for radio equipment. Actual input power requirement will vary based on radio usage.
Communications:	One RS-232 serial port for configuration. One RS-232 serial port for radio communications. Various protocols available. Note: +12Vdc power for radio is included (+12Vdc nominal @ 2 A max).
Environmental:	Temperature: 32 °F to 158 °F (0 °C to 70 °C) Humidity: 5% to 95% @ 158 °F, non-condensing
Typical Configuration:	Cold Rolled Steel, NEMA 4 front access enclosure Dimensions (HxWxD): 20 x 16 x 8 inches Weight: 80.0 lbs
Mounting:	Wall or Pole-Top

CONTROLS AND INDICATIONS

- Front Panel Switch Control:** A,B,C Phase Trip/Close
- Local/Remote:** SCADA Master Control
- CommFail:** Revert to automatic control if communications to the master station fail
- Auto Control:** Fully automatic control based on internal user-defined switching algorithms
- Lockout:** Failure detected - control operations blocked until reset either locally or from SCADA master station

Ordering Info eCAP 9045-X

- X=1 w/o PT, w/o CT
- X=2 w/ PT, w/o CT
- X=3 w/o PT, w/ CT
- X=4 w/ PT, w/ CT

SAFETY

Burnout protection blocks all switch operations until line voltage reaches an acceptable level

Hunting, Operation Retry Rate as well as the total number of attempts can be user limited

Programmable time interval & retries for detected neutral fault conditions

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