

3-Phase Capacitor Control

eCAP-9445

3-Phase Multifunction Capacitor Controller

Large Library of Standard and Legacy Protocols

Based upon QEI's field proven 6ACP6 platform, the eCAP-9445 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 DNP3 or any other current or legacy protocol from the 6ACP6 library to smoothly integrate with your larger distribution management system.

The eCAP-9445 accepts voltage and current inputs from either line post sensors or instrument transformers directly. 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, auto, manual, local/remote and lock-out. Front panel LED indicators are included for easy assessment of operations.



6CTP2-2 Current Transformer Interface



6CTP2 Potential Transformer Interface

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SPECIFICATIONS

Input Power Requirement: 2.0 Amp @ 120 VAC, 60 Hz nominal, single phase
Note: eCAP-9445 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): 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

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 detected neutral fault conditions

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