

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..



6CTP2-2 Current Transformer Interface



6PTP2 Potential Transformer Interface

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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