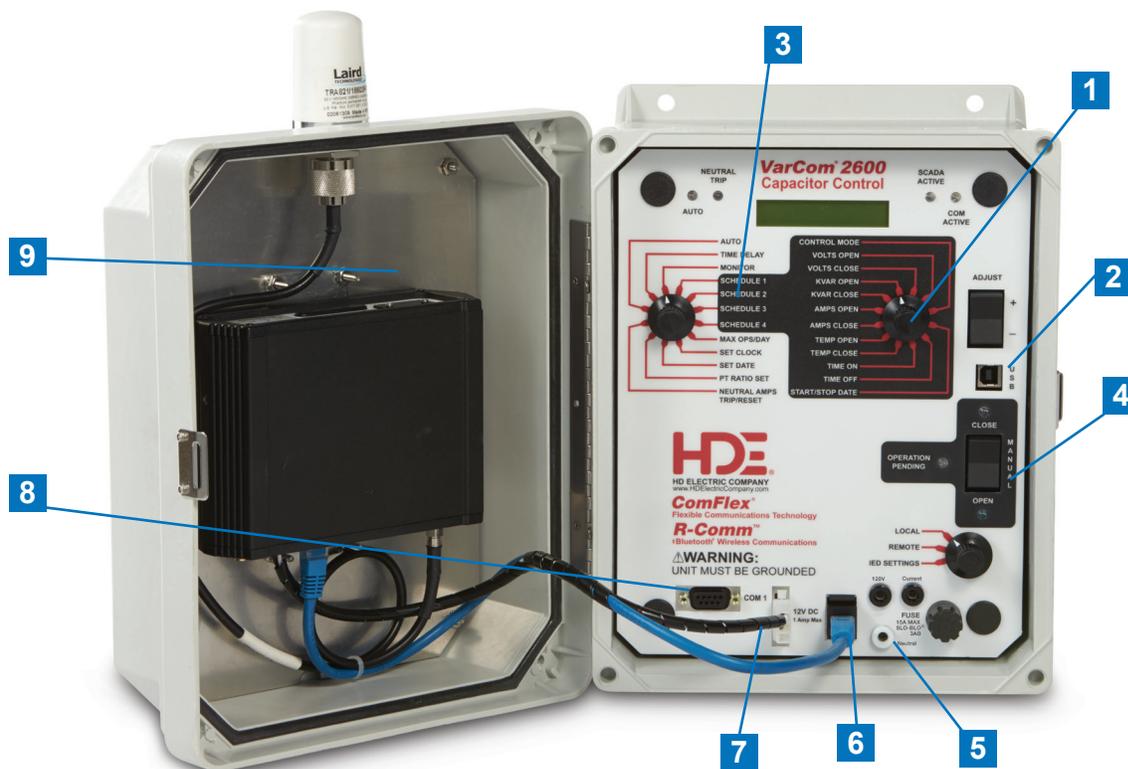


VARCOM®

Capacitor Controls



1 SIMPLE FRONT PANEL FUNCTIONALITY

Easy to use and field friendly - allows the user to easily and intuitively change settings and view critical status parameters

2 USB INTERFACE

Allows your computer to interface with the control using VarWare® Software

3 MULTIPLE SCHEDULES

Create independent switching configurations based on variations of time / voltage / temperature / current / kVAR

4 MANUAL OPERATION

Allows user to manually open or close the cap bank switches

TEST POINTS

5 Allows for measurement of line voltage & phase current

6 DUAL PORT ETHERNET

Multi-session capable for DNP3 and remote interrogation, set-point changes and firmware updates

7 12VDC POWER SUPPLY

For typical communication devices. Standard: 12VDC – 1A
Optional (for higher power requirements): 12-24VDC – 3A

8 RS-232 COMMUNICATIONS PORT

For serial DNP communications devices with serial only connections

9 COMMUNICATIONS PANEL

Allows a variety of communications hardware solutions to be installed with ease. Installation and integration of all communication hardware

• Two-Way Communications from Multiple Platforms:

- Mesh Radio Networks
- Cellular Modem / Router
- AMI Networks
- Wide Area Networks
- Fiber Optics
- WiMAX Networks



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VARCOM®

Capacitor Controls

SPECIFICATIONS

MECHANICAL

MOUNTING: Meter socket, 4 or 6 jaw ringed or pole mount bracket and AMPHENOL® connector

ENCLOSURE: NEMA 3R weatherproof fiberglass; 9.25" W x 11.5" H x 7" D (235 mm x 292 mm x 178 mm); hinged left, lock hasp on right side

WEIGHT: 8.5 lbs. without communications (3.9 kg)

ENVIRONMENTAL

TEMPERATURE: -40°F to +185°F (-40°C to +85°C)

HUMIDITY: 5 – 95%, non-condensing

SETTINGS

USER INTERFACE: Front panel user interface with visible access to most local control settings via rotary and rocker switches

VOLTAGE: CLOSE: 105 – 127 / 210 – 257VAC 50/60Hz;
maximum setting = open volts – 3VAC
OPEN: 108 – 130 / 213 – 260VAC 50/60Hz;
minimum setting = close volts + 3VAC

Time averaged voltage response; setting in 0.1 Volt increments

OPEN/CLOSE TEMPERATURE:

0 – 125°F, minimum spacing 5 degrees

OPEN: 0 – 120°F, no closer than 5°F to Close temperature

MANUAL TIME DELAY: 3 – 600 seconds, 1 second increments

MAX OPERATIONS/DAY: Configurable from 2 – 24

MANUAL TRIP: Close and Open operations delayed by user selected Time Delay. 5-minute reclose delay following Open for capacitor discharge

NEUTRAL AMPS TRIP: 3 – 99A, harmonic filtered, 5-minute time averaged response, manual reset, 5-minute minimum trip time

PT RATIO SET: 1.0 – 500.0 in increments of 0.5

CONTROL MODES: time / voltage / temperature / kVAR / current with overrides of voltage and temperature as applicable

COMPATIBLE LINE POST SENSORS: Lindsey® CVMI, Fisher Pierce® 1301, Hubbell and Piedmont

PHASE ANGLE ACCURACY: ±1° lead or lag

CURRENT:

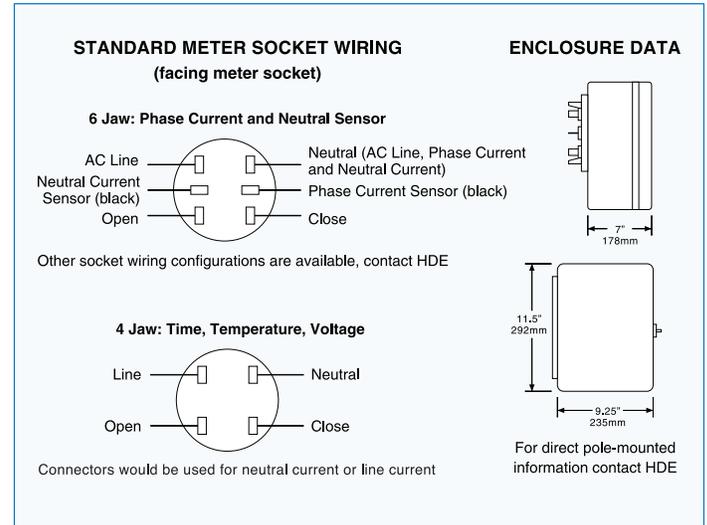
OPEN: 5A to 595A; maximum setting = close amps – 5A

CLOSE: 5A to 600A; minimum setting = open amps + 5A

Time averaged current response; settings in 0.5 Amp increments

KVAR: OPEN: 280 lagging to 1000 leading (single phase);
at least 20kVAR greater than kVAR Close

CLOSE: 2000 lagging to 10 lagging (single phase)



TECHNICAL

POWER REQUIREMENT: 100 – 140 or 200 – 260VAC, 10W

OUTPUT CONTACTOR: 30A, 120/240VAC; 15 second "on" duration for motor and solenoid operated switches

FUSE: 15A SLO-BLO®

TEST POINTS: Insulated banana jack ports for voltage and current

SURGE / LIGHTNING PROTECTION: ANSI C37.90.1

VOLTAGE ACCURACY: ±0.4%, 0.1VAC resolution

CURRENT ACCURACY: ±1.0%, 0.5A resolution

TEMPERATURE ACCURACY: ±1°F, 1°F resolution

TIME ACCURACY: Temperature compensated oscillator, ±0.001%

CLOCK BACK-UP: Capacitor – 10 days

DISPLAY: Liquid Crystal, -22°F to +176°F (-30°C to +80°C)

COMPUTER INTERFACE: USB port using VarWare Software. Bluetooth® wireless (200 ft. range), optional

COMMUNICATIONS INTERFACE: RS-232 serial interface for DNP3 Ethernet with dual port, multisession capability for DNP3 and configuration with VarWare control software

COMMUNICATIONS POWER SUPPLY: 12VDC, 1A (optional 3A)

COMMUNICATION PROTOCOL: DNP3 / IEEE 1815, level 2

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