HD ELECTRIC COMPANY

INSTALLATION GUIDE FOR NoMax™ CAPACITOR CONTROLS

Please read these instructions completely before beginning installation. These instructions are intended to supplement, not replace, local practices and procedures.

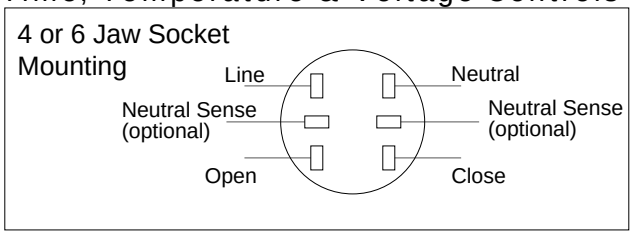
METER SOCKET MOUNTING

The NoMax™ Capacitor Control is supplied ready for meter socket mounting or for mounting directly to a pole with a supplied mounting bracket. Meter socket terminal assignments are shown here:

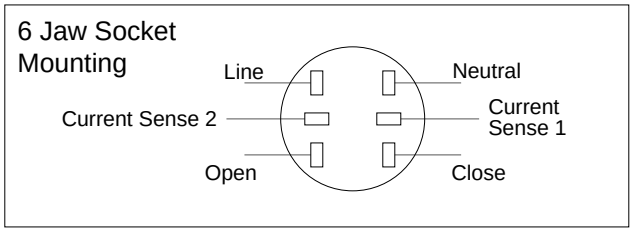
Before plugging the Control into a live meter socket, rotate the main switch out of the AUTO/OPERATIONS position. The Capacitor Control can now be plugged directly into a live meter socket and will not operate the capacitor bank switches upon installation. The front panel fuse which protects the capacitor bank switches may also be removed

Socket mounted controls are supplied ready for either ringed or ringless meter sockets. The two types of sockets are not interchangeable; make sure you have the correct type of control for the meter socket to be used.

Models 1300, 1400 & 1600
Time, Temperature & Voltage Controls



Model 2000 VAR Control



Ringed Base

Align the terminals on the back of the Control and press firmly into the meter socket. Use the supplied ring to complete the installation. Attach a ground wire to the external ground lug. Seal or lock the ring only after the entire system has been verified.

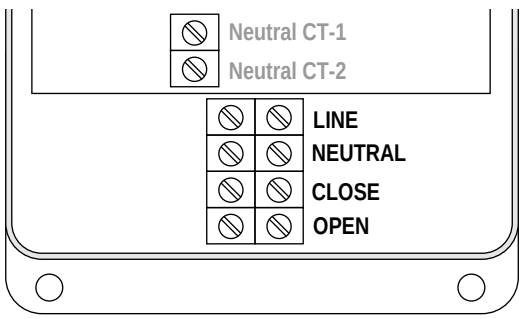
Ringless Base

Align the terminals on the back of the Control and press firmly into the meter socket. Tighten the 3 locking screws located on the meter base. Attach a ground wire to the external ground lug. Seal the three locking screws only after the entire system has been verified.

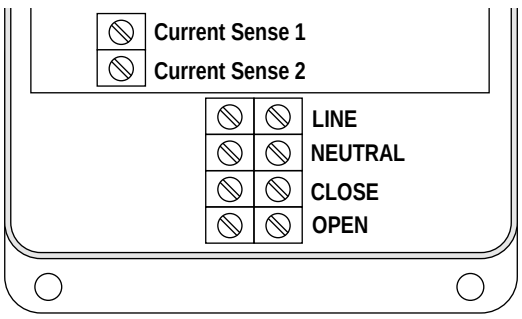
POLE MOUNTING

Pole Mounted Controls are mounted with the supplied pole brackets and user supplied mounting straps or lag screws. After the Control is attached to the pole, attach a ground wire to the external ground lug. The Control should be wired by connecting the 4 or 6 wires (must be deenergized during connection) inside the Control as per the diagrams below:

Models 1300, 1400 & 1600
Time, Temperature & Voltage Controls



Model 2000 VAR Control



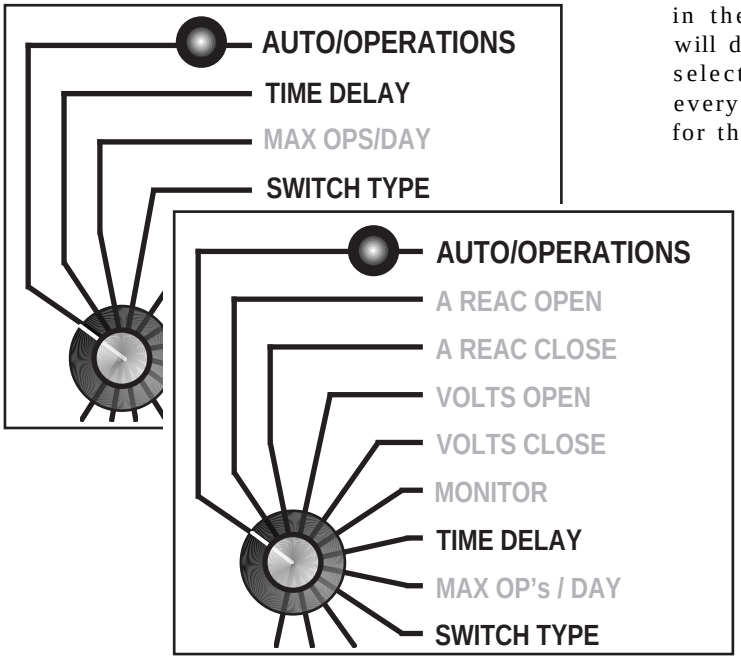
The terminal blocks can accommodate wire sizes from #4 to #18.
All connections must be made with the wiring and the Control deenergized.

VAR CONTROL CURRENT SENSORS The NoMax™ 2000 VAR Control is supplied ready to operate with Lindsey CVMI or Fisher-Pierce 1301 overhead sensors. The sensor output should be 600A:10V. *If the current sensor is connected to a phase different than the supply voltage, refer to the software manual to make adjustments.* Voltage sensing for the VAR Control is prewired to use the supply voltage, typically 120 or 240V.

FUSING The NoMax™ 2000 VAR Capacitor Control is supplied with a 15 Amp SLO-BLO® fuse. This fuse protects the capacitor switches. If it was removed, this fuse should be reinstalled after installation is complete. The Control circuitry is protected by an internal fuse which is not field replaceable. All repairs should be referred to the factory.

MANUAL OPERATION The NoMax™ Capacitor Control can be used to operate the connected capacitor bank switches manually. To manually CLOSE or OPEN the capacitor bank using the Control front panel toggle switch:

Models 1300, 1400 & 1600
Time, Temperature & Voltage Controls

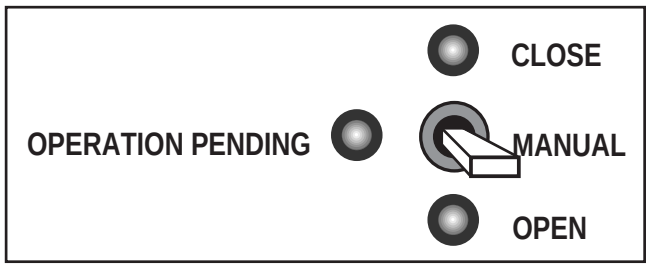


Model 2000 VAR Control

1 Switch the Control out of the AUTO/OPERATIONS mode, verify that the red lamp is off, and select TIME DELAY. Dial in the desired time delay, in seconds, from 3 to 600. This will delay both manual and automatic operations by the time selected. The OPERATION PENDING light flashes before every open or close operation for the period of time selected for the time delay.

2 Select SWITCH TYPE and select the type of capacitor bank switch installed; MOTOR OP (can be oil or motor driven vacuum switches) or SOLENOID (typically vacuum switches). Oil switches are the most common type of capacitor bank switch.

3 Use the toggle switch to OPEN or CLOSE the capacitor bank. The OPERATION PENDING light will flash for the duration of the selected TIME DELAY. The CLOSE or OPEN lights will flash during the time the output is energized (100 msec. for SOLENOID and 15 sec. for MOTOR OP) and then remain on.



The capacitor bank cannot be closed within less than 5 minutes from the previous open operation to allow the capacitor bank to discharge. If a CLOSE operation is attempted during this 5 minute time period, the display will show 5MIN DLY and the Control will not close.

NOTE: Pending manual operations can be canceled by turning the Control to AUTO/OPERATIONS. Pending automatic operations can be prevented by switching out of AUTO/OPERATIONS to any other switch position.

After completing the required manual operations, return the control to AUTO/OPERATIONS for automatic operation. The LED confirms Automatic operation. The display shows the total number of CLOSE operations.

Important: **The Control is supplied from the factory programmed with all four schedules off; the Control will perform NO automatic operations. To activate any schedule and allow automatic operation, set it's START DATE to 1/1 and STOP DATE to 12/31. See the complete Installation and Operating Guide for more complete information on programming and using the NoMax™ Capacitor Control.**

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