

## STC Programmable Digital Timer Models 2W200C-T-DH/DL Operation & Installation Procedure

**Warning:** Risk of shock when valve is in operation. Do not touch prongs while valve and timer are operating.

### Functionality & Types

#### Functionality:

- The cover is constructed of engineered plastic which is flame retardant and intensity resistant.
- The unit is controlled by a microcomputer chip and has high time precision.
- The display is an LED display that is ideal for viewing in dark conditions.
- Wide adjustable range of time:
  - 1sec - 99h59min59sec
  - Open Time & Close Time can be adjusted.
- Functional Mode:
  - Cycle Mode: Close & Open or Open & Close
  - Single Mode: Open or Close after specified time period.
  - IP65 Protection class with proper installation.
  - Standard DIN43650A input and output connection.
  - When IND light is lit, timer is ON. When IND light is unlit, timer is OFF.

#### Types:

- High Voltage: 110-220VAC, 50/60Hz, 1A (2W200C-T-DH)
- Low Voltage: 7-36V, AC or DC, 3A (2W200C-T-DL)

### Installation Guide

#### Electrical Connection:

The three pronged plug on the front of the unit and the socket on the back of the unit are standard DIN43650A connections.

1. Connect the power supply to the front of the unit via a DIN connection (See **Figure 1** below).
2. Set the desired CLOSE and OPEN times and the desired operation mode (see page 2).
3. Plug the valve coil into the back socket of the timer unit and begin operation (See **Figure 2** below).

#### ELECTRICAL CONNECTION PROCEDURE

##### A: DIN Connector:

[1] Remove the Philip screw from the plastic housing.

[2] Unplug the plastic housing from the DIN coil.

[3] From the screw opening, use the screw to push the terminal block out of the plastic housing.

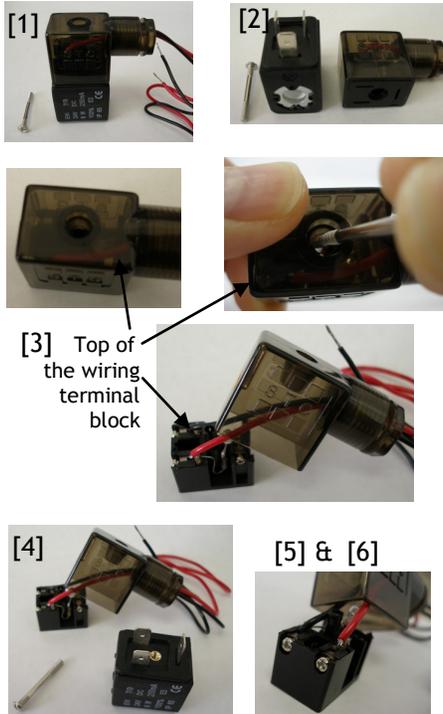
[4] Note the 1, 2, and ground markings on underside of DIN enclosure.

[5] For DC DIN coil, connect 1 to positive, 2 to negative.

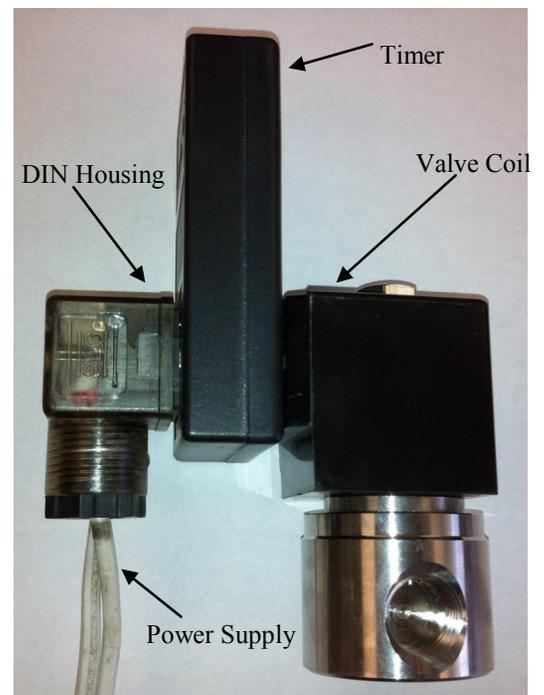
[6] For AC DIN coil, connect 1 to HOT wire, 2 to neutral wire, and if required connect ground to ground wire.

##### B: Grommet/Lead Wire Connector:

DC: Red=Positive, Black=Negative  
AC: Black=Hot, White=Neutral/  
Common



**Figure 1.** Electrical Connection Procedure.



**Figure 2.** Fully Assembled Timer, Valve, and Power Supply.

## STC Programmable Digital Timer Models 2W200C-T-DH/DL Operation & Installation Procedure Page 2

 **Warning:** Risk of shock when valve is in operation. Do not touch prongs while valve and timer are operating.

### Operation Modes

#### Display Operation Modes:

- When display screen shows “000000” timer is in stop mode.
- When display screen shows “CLOSE” timer is in close time setting mode.
- When display screen shows “OPEN” timer is in open time setting mode.
- When display screen shows “OFF-ON” timer is in closed & opened (cycle) mode.
- When display screen shows “ON-OFF” timer is in open & closed (cycle) mode.
- When display screen shows “OFF” timer is off, then turns on after specified amount of time. The timer will remain on until the RESET button is pressed.
- When display screen shows “ON” timer is on first, then turns off after specified amount of time. The timer will remain off until the RESET button is pressed.



### Programming Guide

#### Procedure for setting CLOSE and OPEN times:

1. Press MODE until CLOSE appears.
2. Press MODE once more and screen will say “000000” (unless it has already been set).
3. To switch between hours, seconds, and minutes press ADD and DEC key simultaneously. Flashing figures indicate time scale to be set. The first two figures represent hours, the second two figures represent minutes, and the last two figures represent seconds.
4. Add time by pressing ADD key.
5. Subtract time by pressing DEC key.
6. After setting the close time, press MODE to confirm.
7. Press MODE key until OPEN appears, then repeat steps 2 through 6 to set time.

#### Procedure for setting operation mode:

1. After setting CLOSE and OPEN times, press MODE key once again until either ON-OFF, OFF-ON, - -OFF-, or - - ON- - appears.
2. Use ADD and DEC keys to cycle through the different operation modes.
3. Once you have selected an operation mode, press MODE key once again to start your chosen mode.
4. Once started, the timer will remain in the operation mode until the RESET button is pressed, at which point the operation mode will reset and start from the beginning.

#### To modify open or close times during operation:

**Note:** The new set time will take effect in next cycle.

1. During operation, hold ADD key for 3+ seconds to modify setting of OPEN time (press MODE key to confirm new setting).
2. During operation, hold DEC key for 3+ seconds to modify setting of CLOSE time (press MODE key to confirm new setting).

#### To check open or close times during operation:

1. During operation, press ADD key to check OPEN time (display will return to workspace after 3 seconds).
2. During operation, press DEC key to check CLOSE time (display will return to workspace after 3 seconds).

#### Function settings during operation:

1. **Stop:** During operation, press RESET key to test function (operation mode will reset and start from the beginning).
2. **Testing:** During operation, press MODE key to stop operation and press RESET to begin again.
3. **Saved Data:** In case of power failure, CPU will auto-save data if device is powered off suddenly, and will continue work from saved point after power restoration.