PROCESS TECHNOLOGY

DTS Digital Timer (120V)

The DTS Digital Timer provides versatile, reliable switching control in an easy-to-program LCD controller capable of setting up to eight switch cycles. A NiCad battery backup saves settings temporarily during AC power failure; relays are de-energized with loss of AC power.

Set the Clock

1. The top of the DTS has two slide setting controls. The Controller Run Mode Switch is on the right. Slide the Controller Run Mode Switch to ⏱.

2. Numbers printed across the top of the LCD represent days of the week. Press the **1...7** button until the arrow at the top of the LCD screen points to the current day. See details in Figure 1.

3. Scroll to find the correct hour (**h** button) and minute(**m** button). Note the AM/PM indicators in the top left of the LCD.

Scroll. *Press and hold* h *button/*m *button to scroll hours/minutes and set times.*

4. When finished, slide the Controller Run Mode Switch from ⏱ to **Run**.

Program a Cycle

Once you set the clock, you can begin programming switch cycles. DTS has pre-programmed groups that make it easy to program a group of days using only one Cycle. The following groups are available:

Mon-Fri (1-5)	Mon-Sun (1-7)
Mon-Sat (1-6)	Sat-Sun (6-7)

Note. *Two settings are required per cycle, Switch On & Switch Off, so eight cycles are possible. An example of a cycle is Mon–Fri, Switch On 9am, Switch Off 6pm (Switch On=relays energized, circuit closed; Switch Off=circuit open.)*

Set Switch On/Switch Off Times

1. Slide the Controller Run Mode Switch to ℗ to set Switch On time. A ☼ displays during Switch On setting. A number displays just beneath the ☼ to identify the switch cycle. When you begin programming, **1** should display.

2. Numbers printed across the top of the LCD represent days of the week. Press the **1...7** button until the arrow at the top of the LCD screen points to the correct day or group of days (see Figure 1 for details).

3. Set the Switch On time. Scroll to find the correct hour (**h** button) and minute(**m** button). Note the AM/PM indicators in the top left of the LCD.

4. Complete the cycle by setting the Switch Off time. Press ℗ button. ☼ disappears indicating Switch Off and the switch cycle number changes to **2**. Press **1...7** button to select the day of the week (the same day(s) as step 2).
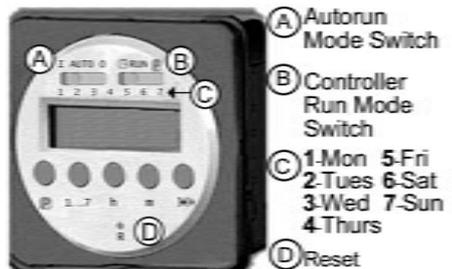

Figure 1: DTS

5. Set the Switch Off time. Scroll to find the correct hour (h button) and minute(m button). Note the AM/PM indicators in the top left of the LCD.

6. To set a new cycle, beginning with Switch On time, press Ⓟ button and repeat steps 2-5.

To end programming, slide Controller Run Mode Switch from Ⓟ to Run.

Press P to scroll through cycles

1. To verify all of your cycles are set properly, slide the Controller Run Mode Switch to Ⓟ.

2. Press Ⓟ repeatedly to scroll settings.

3. Make changes as needed. When finished, slide the Controller Run Mode Switch to Run.

Clear Settings

Clear (erase) all settings by pressing R button (reset) at any time. To clear one setting, continue to step 1.

1. Slide Controller Run Mode Switch to Ⓟ.

2. Press Ⓟ button to display the Switch On setting. The arrows at the top and the time should indicate day of the week and time of Switch On.

3. Press the 1...7 button until no arrows display at the top of the LCD.

4. Press Ⓟ button to display the corresponding Switch Off setting. Repeat step 3 for Switch Off.

5. After clearing the cycle (Switch On **and** Switch Off settings) slide the Controller Run Mode Switch to Run.
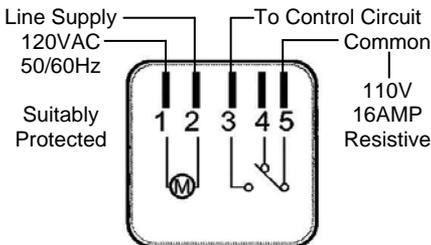
AutoRun

AutoRun enables programmed cycles to run without any additional input.

1. Slide Controller Run Mode Switch to Run.

2. Slide AutoRun Mode Switch to Auto. DTS immediately goes into AutoRun mode and will Switch On at next programmed time.

Override AutoRun

You can temporarily override the AutoRun setting the following ways:

Override ON: Slide AutoRun Mode Switch to I. Switch remains on indefinitely.

Override OFF: Slide AutoRun Mode Switch to 0. Switch remains off indefinitely.

Skip Cycle: From AutoRun mode, press ✕↔ button. The next calendar day is skipped.

EEE Error

If the LCD displays EEE, an error exists in one or more switch cycles.

1. Slide Controller Run Mode Switch to Ⓟ.

2. Note the cycle number in error (number displays with EEE on LCD). Press Ⓟ button to display settings.

3. Review settings and fix the error.

4. Slide the Controller Run Mode Switch to Run.

Wiring

Line Supply — To Control Circuit
120VAC — Common
50/60Hz
110V
Suitably 16AMP
Protected Resistive

Figure 2: DTS Wiring

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