

### 1 Applications

The T1044 is a heavy-duty indoor/outdoor timer designed to control the following loads:

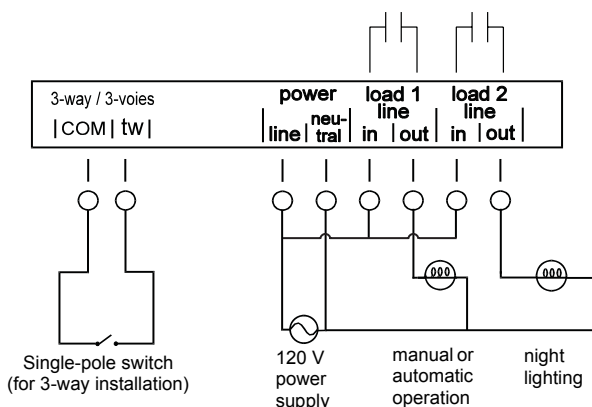
| Load type      | Maximum load             | Examples  |
|----------------|--------------------------|---|
| Resistive load | 3600 W<br>(30 A @ 120 V) | <ul style="list-style-type: none"> <li>incandescent lights</li> <li>halogen lights</li> <li>block heaters</li> </ul>  |
| Inductive load | 1200 W<br>(10 A @ 120 V) | <ul style="list-style-type: none"> <li>fluorescent lights</li> <li>compact fluorescent lights (CFL)</li> <li>sodium lamps</li> <li>electronic ballasts</li> </ul> |
| Motor          | 1.5 hp @ 120 V           | <ul style="list-style-type: none"> <li>pumps</li> <li>fans</li> </ul>   |

The T1044 is equipped with two normally-open (NO) dry contacts identified as **Load 1** and **Load 2** for connecting two independently operated loads:

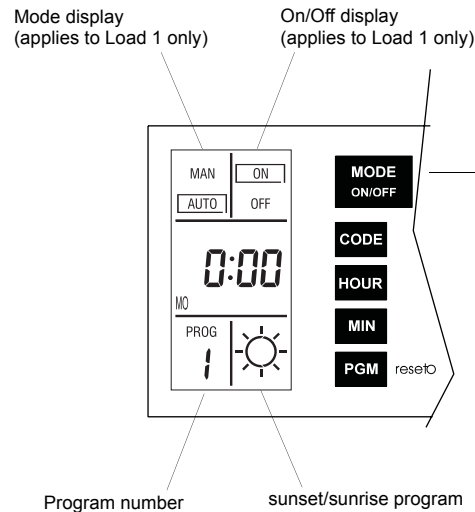
- Load 1** follows the schedule that you have programmed into the timer when placed in automatic mode. The load can also be activated or deactivated manually similar to the operation of a regular switch.  
A single-pole switch can be connected to the timer to control **Load 1** as in a 3-way installation. For example, the timer can be installed outside whereas the switch can be located remotely (e.g., inside the house).
- Load 2** always follows the sunset/sunrise program; i.e., it is activated at sunset and deactivated at sunrise. It is usually used for night lighting.

### 2 Installation

- Cut power at the circuit breaker to avoid electric shock.
  - Connect the power supply between **power line** and **power neutral** terminals.
  - Connect the load and its power supply in series between **Load 1 in** and **Load 1 out** or between **Load 2 in** and **Load 2 out** depending on the application.
- NOTE:** For a 3-way installation, connect a standard single-pole switch to the 3-way terminals of the timer as shown on the wiring diagram.
- Apply power at the circuit breaker.



### 3 Operation



- Briefly press the button to turn the load On or Off (applies to Load 1 only).
- Press the button for 3 seconds to switch between Automatic mode and Manual mode (applies to Load 1 only).

#### 3.1 Load 1

Load 1 can operate in Manual or Automatic mode. To switch between the two modes, press and hold the **MODE** button for 3 seconds.

##### Manual Mode

In Manual mode, the T1044 operates like a regular switch to control Load 1. Briefly press the **MODE** button to activate or deactivate the load. (If you have connected a remote switch to the timer for a 3-way installation, the switch can also be used to activate or deactivate Load 1.) The mode indicator (**MAN**) and the state (**ON** or **OFF**) are displayed.

##### Automatic Mode

In Automatic mode, the T1044 controls Load 1 according to the programmed schedule (see section 6). The mode indicator (**AUTO**), the state (**ON** or **OFF**) and the current program number are displayed.

To temporarily override the programmed schedule, press the **MODE** button or use the remote switch (if connected). The new state indicator will flash to show that this state is temporary. The override remains in effect until you press the **MODE** button (or use the remote switch) or until the beginning of the next program.

#### 3.2 Load 2

Load 2 follows the sunset/sunrise program (regardless of the operating mode of the timer). For example, if Load 2 is a light, the light will turn On at sunset and turns Off at sunrise.

**NOTE:** To use Load 2, you first need to enter the city coordinates and set the date (see section 6).

## 4 Setting the Clock

**NOTE:** The switch displays the time in 24-hour format by default or following a reset.

- 1 To switch between 12-hour format and 24-hour format, proceed as follows:
  - a) Press the **MODE** button to ensure the **MAN** or **AUTO** indicator is displayed.
  - b) Briefly press the **MIN** and **HOUR** buttons simultaneously (**0:00** display = 24-hour; **12:00** display = 12-hour).
- 2 Set the time using the **HOUR** and **MIN** buttons. For the 12-hour time format, if you are setting an afternoon time, ensure **PM** appears on the screen.
- 3 Press the **MODE** button to return to normal operation.

## 5 Daylight Savings Time

This procedure sets the switch for daylight savings time or for standard time.

- 1 Press the **CODE** button four times.
- 2 Press the **MIN** button to switch between **nor** and **Ad**.

|     |   |
|-----|---|
| nor | Standard time / Normal time / Winter time           |
| Ad  | Daylight savings time / Advanced time / Summer time |

- 3 Press the **MODE** button to return to normal operation.

## 6 Sunset/Sunrise Program

**NOTE 1:** Load 2 always follows the sunset/sunrise program. Therefore, to use Load 2, you need to enter the city coordinates (longitude and latitude) and set the date.

**NOTE 2:** By default, once you have programmed the sunset/sunrise parameters, Load 1 will follow the sunset/sunrise program when you place the timer in Automatic mode. To set your own schedule, see section 7.

### 6.1 Determining the sunset/sunrise parameters

Fill out the following table:

| Latitude | Longitude | Day # | nor/Ad | Lc |
|----------|-----------|-------|--------|----|
|          |           |       |        |    |

1) **LATITUDE & LONGITUDE:** Enter the coordinates of your city or the nearest city using the supplied table. If none of the cities in the table is applicable, this information is usually available on the Internet.

**NOTE:** Add a minus sign when entering a south latitude coordinate or a west longitude coordinate.

2) **DAY #:** Enter the day #. (Add the code of the current month to the current date.)

For example: For June 24th, the day # = 151 + 24 = 175

|          |    |        |     |           |     |
|----------|----|--------|-----|-----------|-----|
| January  | 0  | May    | 120 | September | 243 |
| February | 31 | June   | 151 | October   | 273 |
| March    | 59 | July   | 181 | November  | 304 |
| April    | 90 | August | 212 | December  | 334 |

3) **nor/Ad:** If your country has daylight savings time, select the current time period.

|     |   |
|-----|---|
| nor | Standard time / Normal time / Winter time           |
| Ad  | Daylight savings time / Advanced time / Summer time |

4) **Lc:** If your city's time zone is based on political or economic boundaries instead of its coordinates, your lights might switch On/Off too early or too late with respect to sunset and sunrise. Therefore, apply a correction factor (+1 or -1). Otherwise, leave it at 0.

### 6.2 Programming the sunset/sunrise parameters

Once you have completed section 6.1, proceed as follows:

- 1 Press the **CODE** button until the desired parameter appears. The parameters appear in the following order.

| Parameter                    | Default setting | Possible settings | Buttons used |
|------------------------------|-----------------|-------------------|--------------|
| Latitude (LAT)               | 00              | -65 to 65         | HOUR & MIN   |
| Longitude (LONG)             | 000             | -180 to 180       | HOUR & MIN   |
| Day number (DAY #)           | 000             | 1 to 365          | HOUR & MIN   |
| Daylight savings time        | nor             | nor / Ad          | MIN          |
| Local correction factor (Lc) | 0               | -1, 0, 1          | MIN          |

- 2 Press the **HOUR** or **MIN** button to modify the value (see table above for the buttons to use).
- 3 Press the **MODE** button to return to normal operation.

## 7 Programming the Schedule

**NOTE:** Applies to Load 1 only. The programmed schedule does not affect Load 2 which follows the sunset/sunrise program only.

The switch can hold 2 programs which are repeated every day. When you place the timer in Automatic mode, it will activate the load at the start of each program and deactivate it at the end of the program. You need to set the following parameters:

- P1 ON** : Start time of program 1
- P1 OFF** : End time of program 1
- P2 ON** : Start time of program 2
- P2 OFF** : End time of program 2

- 1 Press the **PGM** button until the desired parameter is displayed. If you have entered your city's parameters (see section 6), the parameters **P1 ON** and **P2 OFF** show the sunset time and sunrise time for this time of the year. If Load 1 is used for lighting, when the timer will be placed in **AUTO** mode, it will turn the light ON at sunset and will turn it Off at sunrise. For example:

- P1 ON** : **20:38** (sunset)
- P1 OFF** : --:-- (blank)
- P2 ON** : --:-- (blank)
- P2 OFF** : **6:10** (sunrise)

- ② Press the **HOUR** and **MIN** buttons to set the time.

**Example:** If you want your lights to turn On at sunset and to turn Off at 10:00 PM, set **P1 OFF** to **22:00**. If you also want your lights to turn back On at 5:00 AM then turn Off at sunrise, set **P2 ON** to **5:00**.

**P1 ON** : **20:38** (sunset)  
**P1 OFF** : **22:00** (programmed)  
**P2 ON** : **5:00** (programmed)  
**P2 OFF** : **6:10** (sunrise)

**NOTE:** **P1 OFF** and **P2 OFF** have priority over **P1 ON** and **P2 ON** respectively. For example, if sunrise is at 4:58 and **P2 ON** is set to 5:00, the lights will not turn on.

You can replace the sunrise and sunset times by fixed times. Select program **P1 ON** or **P2 OFF** and enter the desired time using the **HOUR** and **MIN** buttons.

- ③ Press the **MODE** button to return to normal operation.

### Clearing a programmed time

- ① Press the **PGM** button to display the programmed time.  
② Press the **CODE** button. The time will be erased and --:-- will be displayed.

**NOTE:** For **P1 ON** and **P2 OFF**, if you have programmed the city parameters, the programmed time will be replaced by sunset time and sunrise time respectively.

- ③ Press the **MODE** button to return to normal operation.

## 8 Technical Specifications

**Supply:** 120 VAC, 50 / 60 Hz

**3-way input:** Requires a dry contact

**Maximum load:** See section 1

**Operating temperature range:** -40 °C to 50 °C (-40 °F to 122 °F)

**Solar table precision:** +/- 11 min. (max error around poles)

**Enclosure type:** 3R

**Certifications:** CSA & UL



## Warranty

AUBE warrants this product, excluding battery, to be free from defects in the workmanship or materials, under normal use and service, for a period of three (3) years from the date of purchase by the consumer. If at any time during the warranty period the product is determined to be defective or malfunctions, AUBE shall repair or replace it (at AUBE's option).

If the product is defective,

- (i) return it, with a bill of sale or other dated proof of purchase, to the place from which you purchased it, or
- (ii) contact AUBE. AUBE will make the determination whether the product should be returned, or whether a replacement product can be sent to you.

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## Customer Assistance

If you have any questions on the product installation or operation, contact us at:

705 Montrichard Avenue  
Saint-Jean-sur-Richelieu, Quebec  
J2X 5K8  
Canada  
Tel.: (450) 358-4600  
Toll-free: 1-800-831-AUBE  
Fax: (450) 358-4650  
Email: aube.service@honeywell.com

For more information on our products, go to  
[www.aubetech.com](http://www.aubetech.com)

| CANADA            |     |      |    |
|-------------------|-----|------|----|
| CITY              | LAT | LONG | Lc |
| BANFF             | 51  | -115 | 1  |
| BURNABY           | 49  | -122 | 0  |
| CALGARY           | 51  | -114 | 1  |
| CAPE - DORSET     | 64  | -76  | 0  |
| CHICOUTIMI        | 48  | -71  | 0  |
| DAWSON            | 64  | -139 | 1  |
| EASTMAIN          | 52  | -78  | 0  |
| EDMONTON          | 53  | -113 | 1  |
| FORT SEVERN       | 56  | -87  | 1  |
| HALIFAX           | 44  | -63  | 0  |
| IGALUIT           | 63  | -68  | 0  |
| INUKJUAJ          | 58  | -78  | 0  |
| KITCHENER         | 43  | -80  | 0  |
| LONDON            | 42  | -81  | 0  |
| MISTASSINI        | 50  | -73  | 0  |
| MONTREAL          | 45  | -73  | 0  |
| OSHAWA            | 43  | -78  | 0  |
| OTTAWA            | 45  | -75  | 0  |
| QUEBEC            | 46  | -71  | 0  |
| REGINA            | 50  | -104 | 1  |
| RICHMOND          | 49  | -123 | 0  |
| SASKATOON         | 52  | -106 | 1  |
| SEPT-ILES         | 50  | -66  | -1 |
| SHERBROOKE        | 45  | -71  | 0  |
| ST. ANTHONY       | 51  | -55  | 0  |
| SAINT JOHN (NB)   | 45  | -66  | 0  |
| ST. JOHN'S (NFLD) | 47  | -52  | 0  |
| SUDBURY           | 46  | -81  | 0  |
| THUNDER BAY       | 48  | -89  | 1  |
| TORONTO           | 43  | -79  | 0  |
| TROIS-RIVIÈRES    | 46  | -72  | 0  |
| URANIUM CITY      | 59  | -108 | 0  |
| VANCOUVER         | 49  | -123 | 0  |
| WINDSOR           | 42  | -83  | 1  |
| WINNIPEG          | 49  | -97  | 0  |

| USA              |     |      |    |
|------------------|-----|------|----|
| CITY             | LAT | LONG | Lc |
| ABILENE          | 32  | -99  | 1  |
| ALBUQUERQUE      | 35  | -106 | 0  |
| ALLENTOWN        | 40  | -75  | 0  |
| AMARILLO         | 35  | -101 | 1  |
| ANCHORAGE        | 61  | -149 | 1  |
| ATLANTA          | 33  | -84  | 1  |
| AUSTIN           | 30  | -97  | 0  |
| BAKERSFIELD      | 35  | -119 | 0  |
| BALTIMORE        | 39  | -76  | 0  |
| BATON ROUGE      | 30  | -91  | 0  |
| BEAUMONT         | 30  | -94  | 0  |
| BILLINGS         | 45  | -108 | 0  |
| BIRMINGHAM       | 33  | -86  | 0  |
| BOISE            | 43  | -116 | 1  |
| BOISE CITY       | 36  | -102 | 1  |
| BOSTON           | 42  | -71  | 0  |
| BROWNSVILLE      | 25  | -97  | 0  |
| BUFFALO          | 42  | -78  | 0  |
| CEDAR RAPIDS     | 41  | -91  | 0  |
| CHARLOTTE        | 35  | -80  | 0  |
| CHATTANOOGA      | 35  | -85  | 1  |
| CHEYENNE         | 41  | -104 | 0  |
| CHICAGO          | 41  | -87  | 0  |
| CINCINNATI       | 39  | -84  | 1  |
| CLEVELAND        | 41  | -81  | 0  |
| COLOMBUS         | 39  | -82  | 0  |
| COLORADO SPRINGS | 38  | -104 | 0  |
| CORPUS CHRISTI   | 27  | -97  | 0  |
| DALLAS           | 32  | -96  | 0  |
| DENVER           | 39  | -104 | 0  |
| DES MOINES       | 41  | -93  | 0  |
| DETROIT          | 42  | -83  | 1  |
| DULUTH           | 46  | -92  | 0  |
| EL PASO          | 31  | -106 | 0  |
| ERIE             | 42  | -80  | 0  |
| EUGENE           | 44  | -123 | 0  |
| EVANSVILLE       | 37  | -87  | 0  |
| FLINT            | 43  | -83  | 1  |
| FORT LAUDERDALE  | 26  | -80  | 0  |
| FORT WAYNE       | 41  | -85  | 1  |
| FRESNO           | 36  | -119 | 0  |
| GRAND RAPIDS     | 42  | -85  | 1  |
| GREAT FALLS      | 47  | -111 | 0  |
| GREENSBORO       | 36  | -79  | 0  |
| HAMPTON          | 37  | -76  | 0  |
| HARTFORD         | 41  | -72  | 0  |
| HONOLULU         | 21  | -157 | 0  |
| HOUSTON          | 29  | -95  | 0  |
| HUNTSVILLE       | 34  | -86  | 0  |
| INDIANAPOLIS     | 39  | -86  | 1  |
| JACKSON          | 32  | -90  | 0  |
| JACKSONVILLE     | 30  | -81  | 0  |
| KANSAS CITY      | 39  | -94  | 0  |
| KNOXVILLE        | 35  | -83  | 1  |
| LAKEWOOD         | 39  | -105 | 0  |
| LANSING          | 42  | -84  | 1  |
| LAREDO           | 27  | -99  | 1  |
| LAS VEGAS        | 36  | -115 | 0  |
| LEXINGTON        | 38  | -84  | 1  |
| LINCOLN          | 40  | -96  | 0  |
| LITTLE ROCK      | 34  | -92  | 0  |
| LONG BEACH       | 33  | -118 | 0  |
| LOS ANGELES      | 34  | -118 | 0  |

| USA              |     |      |    |
|------------------|-----|------|----|
| CITY             | LAT | LONG | Lc |
| LOUISVILLE       | 38  | -85  | 1  |
| LUBBOCK          | 33  | -101 | 1  |
| MACON            | 32  | -83  | 1  |
| MADISON          | 43  | -89  | 0  |
| MEMPHIS          | 35  | -90  | 0  |
| MIAMI            | 25  | -80  | 0  |
| MILWAUKEE        | 43  | -87  | 0  |
| MINNEAPOLIS      | 44  | -93  | 0  |
| MOBILE           | 30  | -88  | 0  |
| MODESTO          | 37  | -120 | 0  |
| MONTGOMERY       | 32  | -86  | 0  |
| NASHVILLE        | 36  | -86  | 0  |
| NEW ORLEANS      | 29  | -90  | 0  |
| NEW YORK         | 40  | -74  | 0  |
| NORFOLK          | 36  | -76  | 0  |
| OKLAHOMA CITY    | 35  | -97  | 0  |
| OMAHA            | 41  | -95  | 0  |
| ORLANDO          | 28  | -81  | 0  |
| OVERLAND PARK    | 38  | -94  | 0  |
| OXNARD           | 34  | -119 | 0  |
| PEORIA           | 40  | -89  | 0  |
| PHILADELPHIA     | 40  | -75  | 0  |
| PHOENIX          | 33  | -112 | 0  |
| PITTSBURG        | 40  | -79  | 0  |
| PLANO            | 33  | -96  | 0  |
| PORTLAND         | 45  | -122 | 0  |
| PROVIDENCE       | 41  | -71  | 0  |
| RALEIGH          | 35  | -78  | 0  |
| RAPID CITY       | 44  | -103 | 1  |
| RENO             | 39  | -119 | 0  |
| RICHMOND         | 37  | -77  | 0  |
| ROANOKE          | 37  | -79  | 0  |
| ROCHESTER        | 43  | -77  | 0  |
| ROCKFORD         | 42  | -89  | 0  |
| SACRAMENTO       | 38  | -121 | 0  |
| SALT LAKE CITY   | 40  | -111 | 0  |
| SAN ANTONIO      | 29  | -98  | 1  |
| SAN DIEGO        | 32  | -117 | 0  |
| SAN FRANCISCO    | 37  | -122 | 0  |
| SANTA ROSA       | 38  | -122 | 0  |
| SAVANNAH         | 32  | -81  | 0  |
| SEATTLE          | 47  | -122 | 0  |
| SHREVEPORT       | 32  | -93  | 0  |
| SOUTH BEND       | 41  | -86  | 0  |
| SPOKANE          | 47  | -117 | 0  |
| SPRINGFIELD (IL) | 39  | -89  | 0  |
| SPRINGFIELD (MA) | 42  | -72  | 0  |
| SPRINGFIELD (MO) | 37  | -93  | 0  |
| ST. LOUIS        | 38  | -90  | 0  |
| SYRACUSE         | 43  | -76  | 0  |
| TALLAHASSEE      | 30  | -84  | 1  |
| TAMPA            | 27  | -82  | 0  |
| TOLEDO           | 41  | -83  | 1  |
| TOPEKA           | 39  | -95  | 0  |
| TUCSON           | 32  | -110 | 0  |
| TULSA            | 36  | -95  | 0  |
| VIRGINIA BEACH   | 36  | -75  | 0  |
| WACO             | 31  | -97  | 0  |
| WASHINGTON DC    | 38  | -77  | 0  |
| WICHITA          | 37  | -97  | 0  |
| WINSTON-SALEM    | 36  | -80  | 0  |
| YONKERS          | 40  | -73  | 0  |
| YOUNGSTOWN       | 41  | -80  | 0  |

| MEXICO        |     |      |    |
|---------------|-----|------|----|
| CITY          | LAT | LONG | Lc |
| TIJUANA       | 32  | -117 | 0  |
| NOGALES       | 31  | -111 | 0  |
| CIUDAD JUAREZ | 31  | -106 | 0  |
| MATAMOROS     | 26  | -97  | 0  |
| NUEVO LAREDO  | 27  | -99  | 1  |
| MONTERREY     | 25  | -100 | 1  |
| CHIHUAHUA     | 28  | -106 | 0  |
| MAZATLÁN      | 23  | -106 | 0  |
| TAMPICO       | 22  | -98  | 1  |
| ZACATECAS     | 22  | -102 | 1  |
| LÉON          | 21  | -101 | 1  |
| LA PAZ        | 24  | -110 | 0  |
| MEXICO CITY   | 19  | -99  | 1  |
| PUEBLA        | 19  | -98  | 1  |
| GUADALAJARA   | 20  | -103 | 1  |
| OAXACA        | 17  | -96  | 0  |
| ACAPULCO      | 16  | -100 | 1  |
| CANCUN        | 21  | -86  | 0  |
| MERIDA        | 21  | -89  | 0  |

| Puerto Rico |     |      |    |
|-------------|-----|------|----|
| CITY        | LAT | LONG | Lc |
| SAN JUAN    | 18  | -66  | 0  |

| Dominican Republic |     |      |    |
|--------------------|-----|------|----|
| CITY               | LAT | LONG | Lc |
| SANTO DOMINGO      | 18  | -70  | 1  |

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