

1 Applications

The T1073 programmable wall switch can be used in a single-switch or 3-way installation with the following types of lighting:

- Incandescent
- Halogen
- Low-voltage halogen with transformer
- Fluorescent

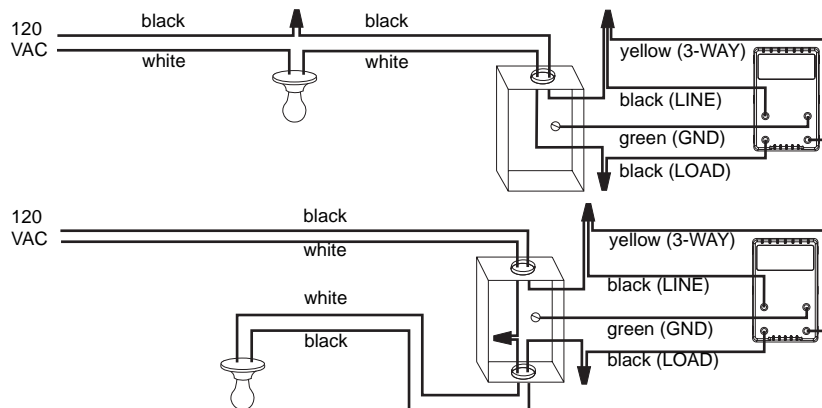
The T1073 switch cannot be used with a load of less than 40 W or more than 500 W.

2 Installation

- 1 Cut power at the circuit breaker to avoid electric shock.
- 2 Remove the existing switch. (For a 3-way installation, identify and label the wire connected to the "common" screw.)
- 3 Install the new switch (see the appropriate section below).
- 4 Apply power at the circuit breaker.

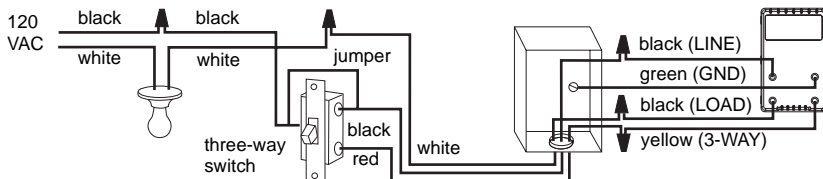
WARNING: Disconnect power to the switch when replacing a light bulb (see section 4).

SINGLE-SWITCH INSTALLATION



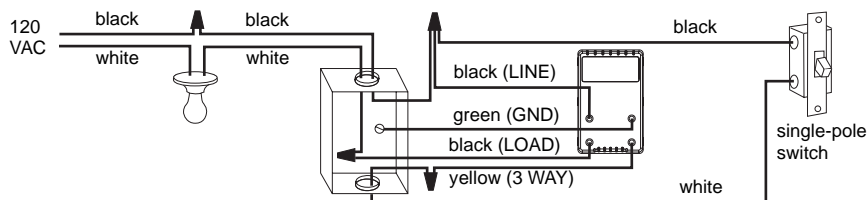
Connect the LINE and 3-WAY wires to the line (120 V) wire and LOAD wire to the load. Connect the GND wire to a ground screw inside the electrical box.

EXISTING 3-WAY INSTALLATION



Connect the LOAD wire on the T1073 to the "common" wire, which you identified when removing the old switch. Connect the GND wire to a ground screw inside the electrical box. Connect the LINE and 3-WAY wires to the two remaining wires. At the other 3-way switch, connect the jumper wire between the "common" screw and the screw where the LINE wire of the T1073 is connected.

NEW 3-WAY INSTALLATION



3 Quick Start-up

Set the time and date before using the switch for the first time.

The T1073 will turn the lights on at sunset and turn them off at 11:00 pm by default. If these settings are appropriate for you, you only need to set the time and date (see shaded zone in the menu flowchart sheet). If the switch's sunset time does not correspond to the actual sunset time, see sections 5.3.3 and 5.3.4.

4 Operation

Indicates the mode of operation (see Section 5.1)

Indicates the time and day

Indicates the current program

Indicates the load on/off state

Briefly press this button to turn the lights on or off. See "Temporary Override" in Section 5.1.4.

Press for 3 seconds to enter the setup menus.

The ☾ icon indicates the current program has been activated at sunset.

The ☀ icon indicates the current program has been activated at sunrise.

Press this button to display today's sunrise time.

Press this button to display today's sunset time.

The LED illuminates when the load state is on.

Safety switch

Before replacing a light bulb, pull out to disconnect power to the switch. This prevents, while the bulb is out, any possible short circuit which will damage the switch. Push back in after the light bulb is replaced.

5 Setup Menus

Press the main button for 3 seconds to enter the setup menus. Refer to the menu flowchart sheet on how to navigate the menus.

5.1 Mode Menu

Use the Mode menu to select one of the three modes of operation (see sections 5.1.1 to 5.1.3).

5.1.1 Manual Mode

In Manual mode, the T1073 operates like a regular switch. To turn the lights on or off, briefly press the main button. The ⚡ icon appears when the switch is in Manual mode.



5.1.2 Automatic Mode

In Automatic mode, the T1073 turns the lights on or off according to the set programs (see Section 5.4). The ☾ icon as well as the current program number are displayed.



5.1.3 Random Mode

In Random mode, the T1073 has no specific times to turn the lights on or off. This mode is designed to give the impression the house is occupied during your absence. It is similar to the Automatic mode except there is no fixed program. The programs are automatically set to different times by the T1073 every day. The 🏠 icon appears when the switch is in Random mode.



The first "On" program occurs at sunset. Each "On" program lasts between 1 hour and 1 hour and 30 minutes; each "Off" program lasts between 15 and 30 minutes. The last "Off" program occurs between 10:30 pm and midnight.

5.1.4 Temporary Override

When the T1073 is in Automatic or Random mode, you can press the main button at any time to override the default state for the current program. The lights will turn off if they are on and vice versa. The new state icon (On or Off) flashes to indicate that the state is temporary. The new state is maintained until you press the main button again or till the next "On" or "Off" program.

5.2 Time Menu

The time display flashes on the screen when the time has not yet been set or after a 4-hour power outage. Use the Time menu to select the time format (12-hour or 24-hour) and to set the clock and date.

NOTE: The date is used to determine the sunset and sunrise times.

5.3 Configuration Menu (Conf)

Use the Configuration menu to set the following parameters (see sections 5.3.1 to 5.3.4).

5.3.1 Backlight mode (SCRN)

The screen is lit at high intensity for 8 seconds when you press any button. The rest of the time, depending on the backlight mode selected, the screen behaves as follows:

Scrn Off: The screen is not lit.

Scrn On HI: The screen is lit at high intensity.

Scrn On LO: The screen is lit at low intensity (default mode).

5.3.2 Automatic Daylight Savings Time Changeover (DLS)

When automatic daylight savings time changeover is on (DLS On), the T1073 changes to daylight savings time (summer time) at 2:00 am on the second Sunday of March and changes back to normal time (winter time) at 2:00 am on the first Sunday of November. This function is enabled (DLS On) by default.

5.3.3 Latitude and Longitude Coordinates (LAT and LONG)

The coordinates are used to turn the lights on at sunset and off at sunrise. The latitude is set to +45 and longitude to -75 by default. These settings provide approximate sunset and sunrise times for most North American cities. To obtain your city's coordinates (or those of a nearby city), see the coordinates table. You can also obtain this information at www.aubetech.com/timer or with a Global Positioning System (GPS) device. The accuracy of the sunset and sunrise times depends on the accuracy of the coordinates you enter for your city.

NOTE: Enter a negative value for a south latitude or a west longitude.

5.3.4 Correction Factor (ADJ)

If your city's time zone is based on political or economic boundaries instead of its coordinates, your lights might switch on or off too early or too late with respect to sunrise and sunset. In this case, apply a correction factor (+1 or -1 hour; refer to addendum). Otherwise, leave it at 0 (default value).

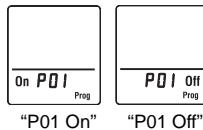
5.4 Program Menu (Prog)

Use the Program menu to set the programs; i.e. the times you want the lights to turn On or Off when the switch is in Automatic mode. To set a program, proceed as follows:

- 1 Select a program number (see section 5.4.1)
- 2 Set the day(s) of the program (see section 5.4.2)
- 3 Set the program start time (see section 5.4.3)

5.4.1 Selecting a program number

You can set up to 21 "On" programs ("P01 On" to "P21 On") and 21 "Off" programs ("P01 Off" to "P21 Off"). Select an "On" program to set when to turn the lights on. Select an "Off" program to set when to turn the lights off.



5.4.2 Setting the day(s) of the program

After selecting a program, set the day(s) of the program. You can select a specific day, all 7 days or "none". Choose "none" for any unused program.

5.4.3 Setting the program start time

After setting the day(s) of the program, set its start time. You can select either a specific time, the sunset time or the sunrise time:

- To select a specific time:
 - (1) Advance to the hour setting and select the hour.
 - (2) Advance to the minutes setting and select the minutes.

- To select sunset or sunrise time:
 - (1) Advance to the hour setting and select the sunset time or sunrise time. **(When you scroll, the sunset time \curvearrowright and sunrise time \star appear between 11 pm and 12 am.)**
 - (2) To enter an offset (from -70 to +70 minutes in 10-minute increments) between the sunset or sunrise time and the program start time, advance to the minutes setting and change the minutes.
 - **EXAMPLE:** If the sunset time is 6:13 pm and you change the minutes to display 6:43 pm, you have entered a delay of 30 minutes. If, later in the year, the sunset time is 4:01 pm, the program will start at 4:31 pm.
 - **NOTE:** When you enter an offset, \curvearrowright appears along with \curvearrowright or \star when you display the sunset or sunrise time. To remove the offset, display the sunset or sunrise time and change the minutes until \curvearrowright disappears.

5.4.4 Examples

Example 1: The lights turn on at sunset and off at 11:00 pm every day (default setting).

Program	Days	Time	Program	Days	Time
P01 On	All 7 days	sunset	P01 Off	All 7 days	11:00 pm
P02 On to P07 On	None	—	P02 Off to P07 Off	None	—

Example 2: The lights turn on at sunset and off at sunrise every day.

Program	Days	Time	Program	Days	Time
P01 On	All 7 days	sunset	P01 Off	All 7 days	sunrise
P02 On to P07 On	None	—	P02 Off to P07 Off	None	—

Example 3: The lights turn on at 8:00 pm every day and turn off at 10:00 pm every day except on Saturday night when they turn off at 1:00 am.

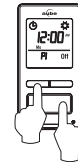
Program	Days	Time	Program	Days	Time
P01 On	All 7 days	8:00 pm	P01 Off	Sunday (Su)	10:00 pm
P02 On	None	—	P02 Off	Monday (Mo)	10:00 pm
P03 On	None	—	P03 Off	Tuesday (Tu)	10:00 pm
P04 On	None	—	P04 Off	Wednesday (We)	10:00 pm
P05 On	None	—	P05 Off	Thursday (Th)	10:00 pm
P06 On	None	—	P06 Off	Friday (Fr)	10:00 pm
P07 On	None	—	P07 Off	Sunday (Su)	1:00 am

Be careful about overlapping!


For example, if you set "P01 Off" at 10:00 pm for all 7 days and set "P02 Off" to 11:00 pm for Saturday, on Saturday, the lights will turn off at 10:00 pm, not 11:00 pm, since "P01 Off" is set to an earlier time than "P02 Off".

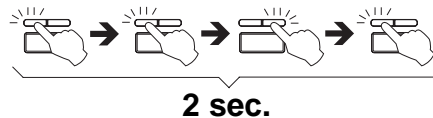
6 Reset to Default Settings

To return the switch to its default settings, simultaneously press both main and left buttons and hold. The software version will appear for 5 seconds. **RST** will appear for the next 5 seconds. Release the buttons when all segments appear on the screen. The switch is now reset (see default settings in the menu flowchart).



7 Keypad Lock

When the keypad is locked, the  icon appears on the screen and the only change permitted is the changing of the state. For example, if the lights are off, they will turn on when you press the main button. However, in Automatic mode, the default state for the current program will be overridden until the next program starts. If you press the main button again before the start of the next program, the lights return to their initial state. **To lock or unlock the keypad, press the buttons in the following order:**



NOTE: You must perform the whole procedure in an interval of 2 seconds. If the procedure was not properly performed, wait another 2 seconds before retrying.

8 Troubleshooting

The screen is blank.	<ul style="list-style-type: none">• A light bulb is burned out.• The safety switch is pulled out (see section 4).
The display is faded or irregular.	<ul style="list-style-type: none">• The load is less than 40 W.• The ambient temperature is either below or above the switch's operating temperature.
The metal plate is hot.	This is normal with high loads (maximum of 500 W).
The sunset or sunrise time is inaccurate.	<ul style="list-style-type: none">• The date or time is wrong (see section 5.2).• The longitude or latitude is wrong (see section 5.3.3).• The correction factor is wrong (see section 5.3.4).• You have entered an offset (see section 5.4.3).

9 Specifications

Supply: 120 VAC, 60 Hz

Minimum load: 40 watts

Maximum load: 500 watts

Operating temperature range: -15 °C to 50 °C (5 °F to 122 °F)

Storage temperature range: -40 °C to 60 °C (-40 °F to 140 °F)

Power outage: The screen is blank. Only the time must be set if the outage lasts more than 4 hours; all other settings and programs are permanently saved.

Latitude range: from -65° to +65°

Solar table precision: +/- 11 min. (within ±60° latitude)

Certification: UL (c UL us)

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. This warranty does not cover removal or reinstallation costs. This warranty shall not apply if it is shown by AUBE that the defect or malfunction was caused by damage which occurred while the product was in the possession of a consumer.

AUBE's sole responsibility shall be to repair or replace the product within the terms stated above. AUBE SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some provinces, states or regions do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you.

THIS WARRANTY IS THE ONLY EXPRESS WARRANTY AUBE MAKES ON THIS PRODUCT. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS HEREBY LIMITED TO THE THREE-YEAR DURATION OF THIS WARRANTY. Some provinces, states or regions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may have other rights which vary according to the province, state or region.

Technical Assistance

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

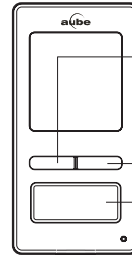
Email: aube.service@honeywell.com



For more information on our products, go to
www.aubetech.com

Flowchart shows default settings
Le diagramme contient les réglages par défaut.
El diagrama contiene los ajustes por defecto.

Legend / Legende / Leyenda

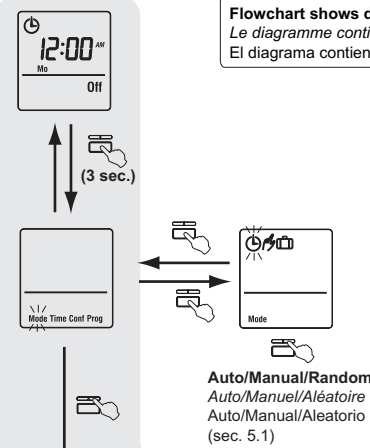


- Briefly press this button to go to preceding menu or setting.**
Appuyer brièvement sur ce bouton pour passer au menu ou réglage précédent.
Presionar brevemente este botón para ir al menú o ajuste precedente.
- Briefly press this button to go to next menu or setting.**
Appuyer brièvement sur ce bouton pour passer au menu ou réglage suivant.
Presionar brevemente este botón para ir al menú o ajuste siguiente.
- Briefly press this button to accept setting and display next parameter.**
Appuyer brièvement sur ce bouton pour accepter le réglage et afficher le prochain paramètre.
Presionar brevemente este botón para aceptar el ajuste y visualizar el parámetro siguiente.
- Press this button for 3 seconds to enter or exit the setup menus.**
Appuyer sur ce bouton pendant 3 secondes pour entrer ou sortir des menus.
Presionar este botón durante 3 segundos para entrar o para salir los menús.

Minimum settings for quick start-up
Réglages minimaux pour démarrage rapide
Ajustes mínimos para el encendido rápido

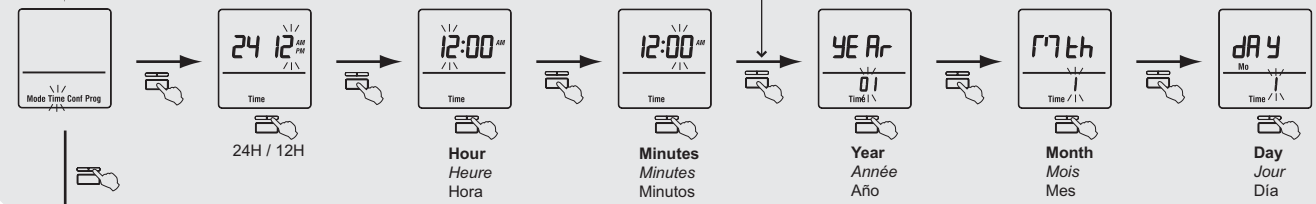
Clock starts.
L'horloge commence à compter.
El reloj comienza a contar.

Mode menu
Menu de mode
Menú de modo

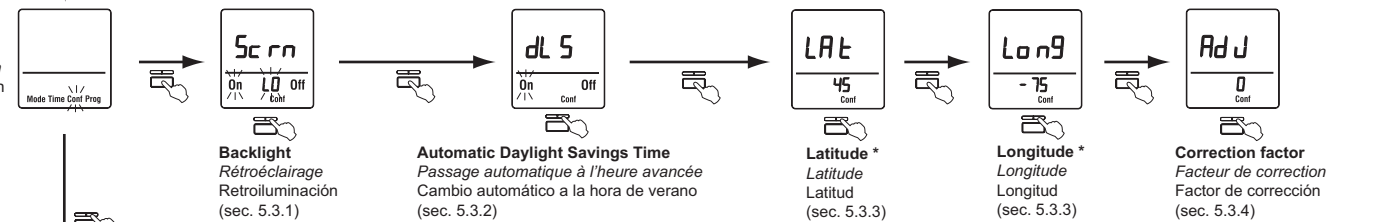


Auto/Manual/Random
Auto/Manuel/Aléatoire
Auto/Manual/Aleatorio
(sec. 5.1)

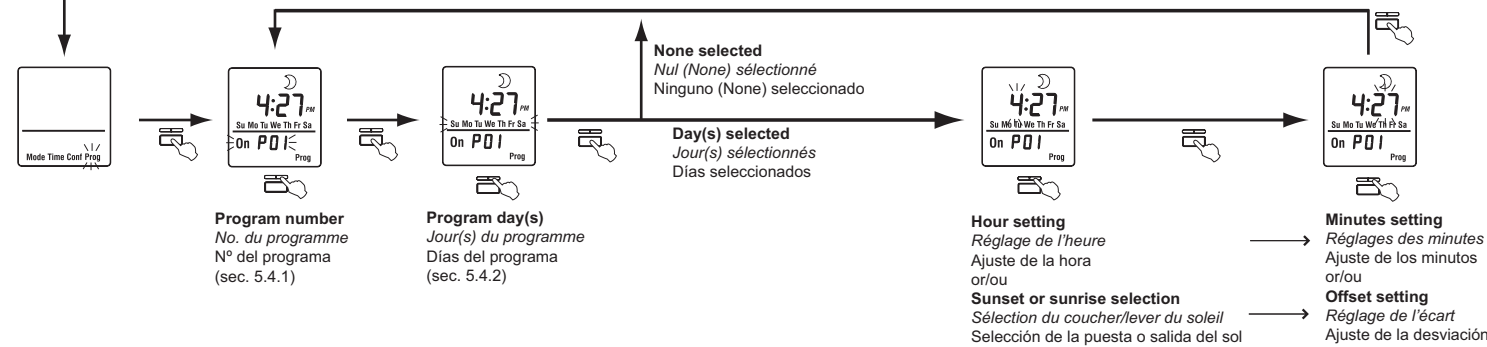
Time menu
Menu de l'heure
Menú de la hora



Configuration menu
Menu de configuration
Menú de configuración



Program menu
Menu de programme
Menú de programa



* Enter a negative value for a south latitude or a west longitude.
Inscrire une valeur négative pour une valeur de latitude sud ou une valeur de longitude ouest.
Ingresar un valor negativo para un valor de latitud Sur o un valor de longitud Oeste.

Program start time
Heure du début du programme
Hora de comienzo del programa
(sec. 5.4.3)

Longitude/Latitude/Correction factor
Longitude/Latitude/Facteur de correction
Longitud/Latitud/Factor de corrección

If your city is not listed below, use a nearby city or refer to the website "www.aubetech.com/timer".
 Si votre ville n'est pas dans la liste, utiliser une ville avoisinante ou consulter le site web «www.aubetech.com/minuterie».
 Si su ciudad no figura en la lista, buscar una ciudad vecina o consultar el sitio web "www.aubetech.com/timer".

CANADA			
City / Ville	Lat.	Long.	Adj.
ABBOTSFORD	49	-122	0
BANFF	51	-115	1
BARRIE	44	-80	0
BURNABY	49	-122	0
CALGARY	51	-114	1
CAPE BRETON	46	-60	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
HAMILTON	49	-112	0
IQUALUIT	63	-68	0
INUKJUAK	58	-78	0
KELOWNA	50	-119	0
KITCHENER	43	-80	0
LONDON	42	-81	0
MISTASSINI	50	-73	0
MONTREAL	45	-73	0
NIAGARA	43	-79	0
OSHAWA	43	-78	0
OTTAWA - GATINEAU	45	-75	0
QUEBEC	46	-71	0
REGINA	50	-104	1
RICHMOND	49	-123	0
ROUYN-NORANDA	48	-79	0
SASKATOON	52	-106	1
SEPT-ILES	50	-66	-1
SHERBROOKE	45	-71	0
ST. ANTHONY	51	-55	0
ST CATHARINES	43	-79	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
VANCOUVER	49	-123	0
VICTORIA	49	-123	0
WHITEHORSE	60	-135	1
WINDSOR	42	-83	1
WINNIPEG	49	-97	0
YELLOWKNIFE	62	-114	1

USA			
City	Lat.	Long.	Adj.
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

USA			
City	Lat.	Long.	Adj.
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
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

USA			
City	Lat.	Long.	Adj.
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

MÉXICO			
Ciudad	Lat.	Long.	Adj.
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			
Ciudad	Lat.	Long.	Adj.
SAN JUAN	18	-66	0

REPÚBLICA DOMINICANA			
Ciudad	Lat.	Long.	Adj.
SANTO DOMINGO	18	-70	1