

INTERMATIC Ascend STW700W Smart In-Wall Timer Instruction Manual

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COMPLIANCE

This device complies with part 15 of the FCC. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or moreof the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Important note: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user 's authority to operate the device.

This Class B digital apparatus complies with ICES-005 of Canada.

WARNINGS/SAFETY



Risk of Fire or Electric Shock

- Disconnect power at the circuit breaker(s) or disconnect switch(es) before installing or servicing.
- Installation and/or wiring must be in accordance with national and local electrical code requirements.
- Only use copper conductors rated 105°C minimum
- Battery is not user replaceable.
- Do NOT use timer to control devices that could have dangerous consequences due to inaccurate timing, such as sun lamps, saunas, heaters, and crock pots.

NOTICE

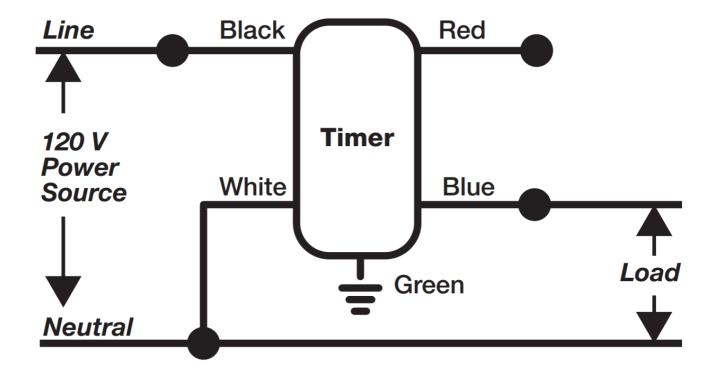
Dispose of product per local regulations on the disposal of lithium batteries.

Ratings1

Operating Voltage	120 VAC, 50/60 Hz
General Purpose	15 A
Inductive Ballast	15 A
Tungsten/Incandescent	8 A
Electronic Ballast/LED	5 A
LED Load	600 W
Motor Load	1 HP
Dimensions	2 3/4" H x 1 3/4" W x 1 2/3" D

Type 1.C Action Operating Control, Pollution Degree 2, Impulse Voltage 2500 V

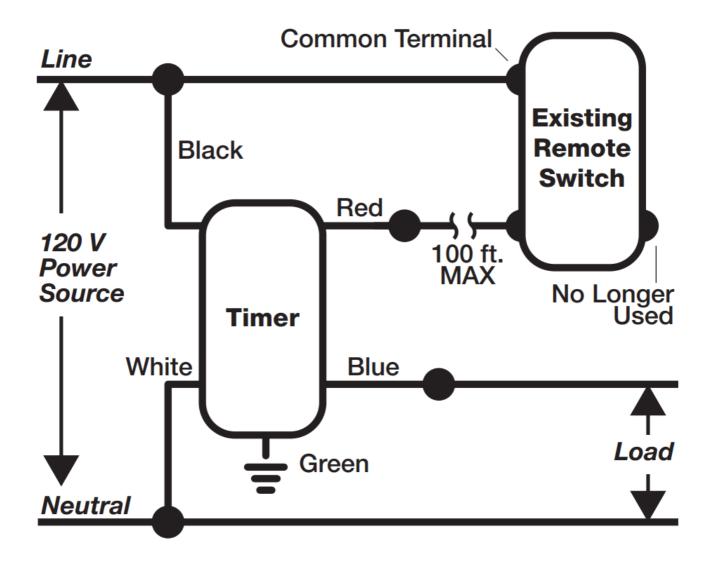
SINGLE-POLE WIRING



Wire	Description
Blue	Connects to black wire from Load
White	Connects to white (neutral) wire from Load and Power Source
Black	Connects to black (hot) wire from Power Source
Green	Connects to ground
Red	Not used in single-pole installations

Note: To be installed in single- and double-gang with 2-1/2" minimum depth. Please consult a qualified electrician for specific wiring details.

TYPICAL THREE-WAY WIRING



Wire	Description
Blue	Connects to black wire from Load
White	Connects to white (neutral) wire from Load and Power Source
Black	Connects to black (hot) wire from Power Source
Green	Connects to ground
Red	Connects through remote switch to black (hot) wire from Power Source

Note: For other three-way wiring scenarios, go to www.Intermatic.com/Ascend.

PRODUCT OVERVIEW

The Ascend 7-Day Timer portfolio consists of two timer models: ST700W Standard and STW700W Wi-Fi enabled. In addition to the intuitive control interface common to both models, the Wi-Fi enabled Timer offers a mobile app for access to a quick setup feature, the ability to save schedules for easy transfer to other Ascend Wi-Fi enabled timers, and convenient monitoring from compatible Apple or Android mobile devices.

Access Point Mode

• Creates a peer to peer communication network between the Timer and your mobile device to offer a direct connection for initial setup, scheduling, and control of your Timer.

Wi-Fi Mode (Local)

- Connects the Timer to your local wireless network.
- Provides the benefit of constant connection with every Timer on your network, when using the app. Remote Access (Cloud)
- Establishing an Intermatic Connect Account and registering a Timer(s) with your account, enables access from anywhere you have an active Wi-Fi or cellular connection.

Voice Integration

- Works with Alexa and Google Home. Setup required using the Alexa or Google Home apps. See our website
 for installation details.
- When paired with Alexa or Google Home, users can command the Timer ON/OFF, Change Mode or get Timer status.

Setup Instructions

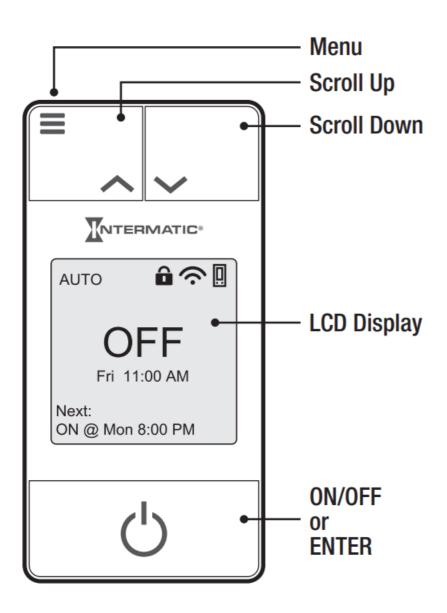
ST700W:

• Go to the Initial Setup at Timer section for instructions.

STW700W:

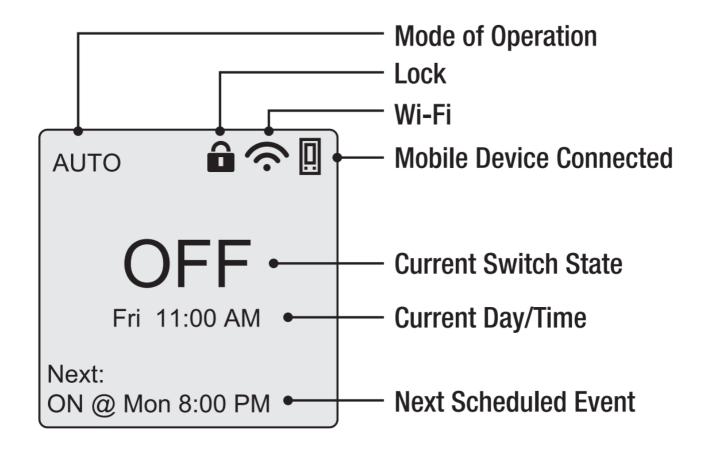
- Go to the Initial Setup at Timer section for instructions.
- Go to the Apple Store or Google Play Store and download the Intermatic Connect App. Follow the instructions in the App to set up your timer.
 - Apple, App Store, Android, Alexa, and Google Play are trademarks of their respective owners and not of Intermatic, Inc., which is not associated or affiliated with any of the owners.

SWITCH INTERFACE



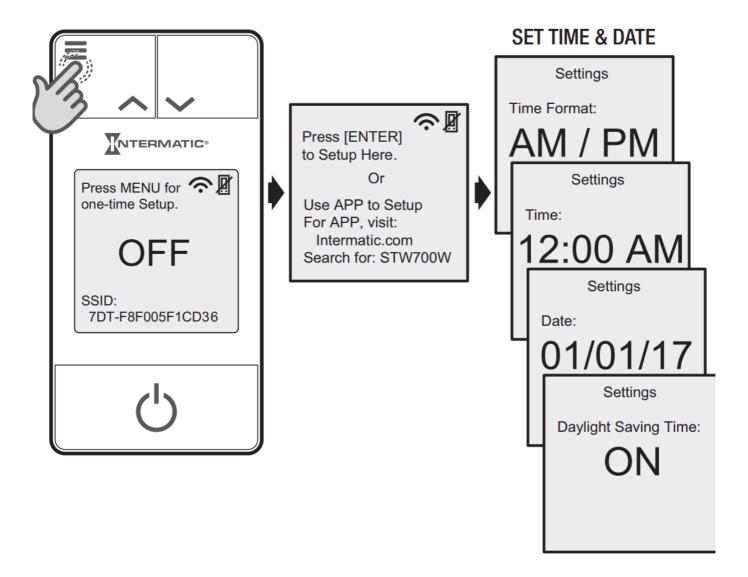
Icon	Description
	Timer locked
∻	Wi-Fi active
Ö	Access Point Mode Timer Connected
	Access Point Mode Timer waiting for connection
	Wi-Fi Mode Timer connected to network
	Wi-Fi Mode Timer not connected to network

LCD Display



Note: Display icons change based on timer model and programmed settings.

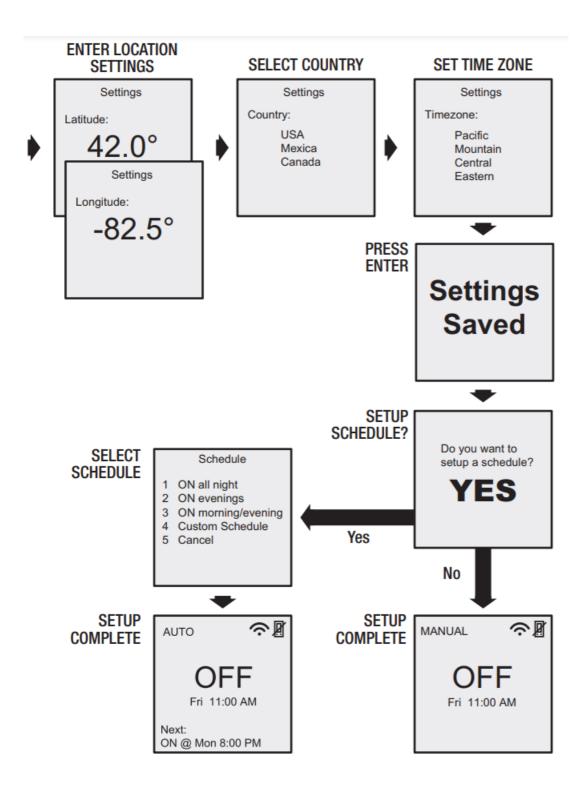
INITIAL SETUP AT TIMER



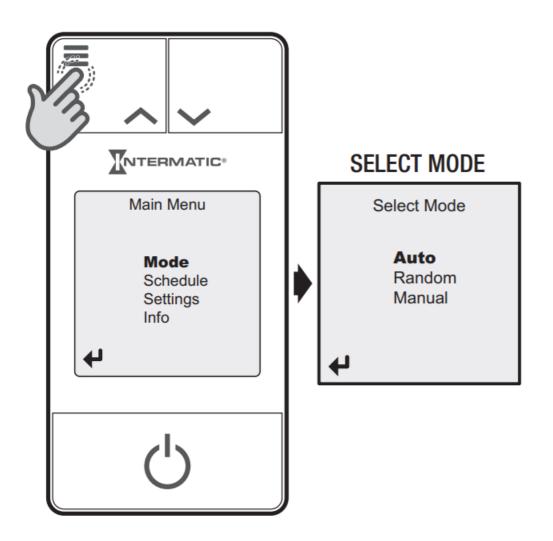
- 1. Scroll UP/DOWN to desired option on the menu screen
- 2. Option blinks when selected
- 3. Press ENTER to confirm and move to the next menu

Note:

- The app setup option is only applicable to the STW700W Wi-Fi enabled model. Press ENTER to begin setup for the ST700W standard model.
- You must complete all screens before returning to the Timer interface screen.
- Refer to page 11 for descriptions of Schedule Templates.
- Refer to the Latitude/Longitude estimation chart on page 20 or perform an app or Internet search for location specific values.
- The SSID and the and icons are not available for the ST700W



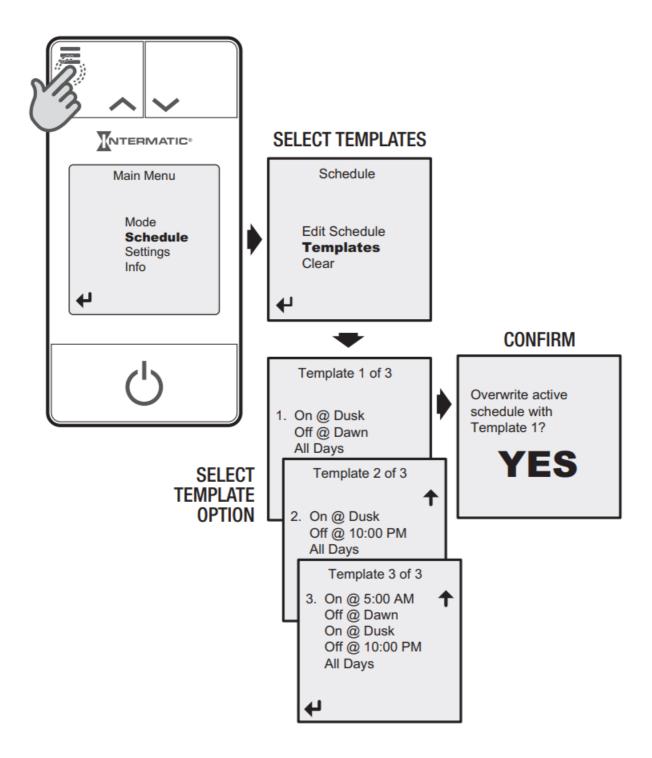
MODES



Auto	Timer operates using your programmed schedule of weekly ON/OFF events.
Random	Similar to Auto mode except that your programmed schedule occurs randomly at +/- 15 mi nutes from the programmed time.
Manual	Operates like a manual toggle switch to turn devices ON and OFF, regardless of any sche dules programmed in the timer.

Note: To enter Auto or Random mode, a programmed schedule must be loaded into memory

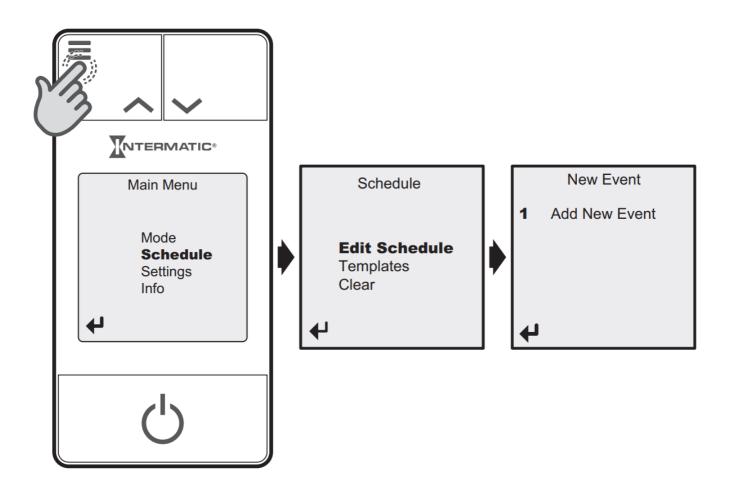
SCHEDULE TEMPLATES



Note:

- A Template is a pre-set schedule of events that overrides your current schedule when chosen.
- Once a Template becomes your current schedule, you can edit the events.
- Template events in this menu cannot be altered.
- Reference page 14 to Edit Schedule events.

NEW SCHEDULE



Menu Options

Action

- 1. Enter to modify Action
 - Turn OFF blinks



- 2. Scroll UP/DOWN to select:
 - Turn On

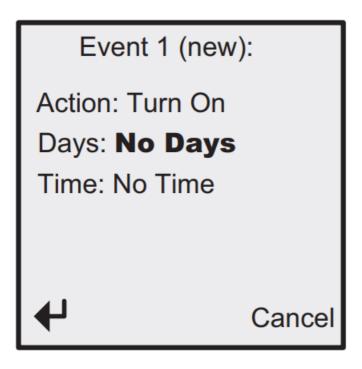
- Turn Off
- 3. ENTER to confirm

Note: At any time, scroll to

and press ENTER to go back to the Main Menu or choose Cancel to cancel input.

Days

- 1. Enter to modify Days
 - No Days blinks



- 2. Scroll UP/DOWN to select:
 - All Days
 - Weekdays
 - Weekends
 - Define Days
 - a. UP/DOWN to select/deselect days



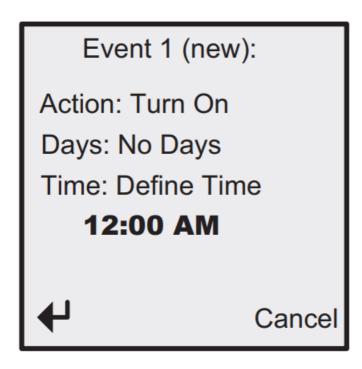
- b. ENTER to confirm day
- c. Select to confirm
- 3. ENTER to confirm

Time

- 1. Enter to modify Time
 - · No Time blinks



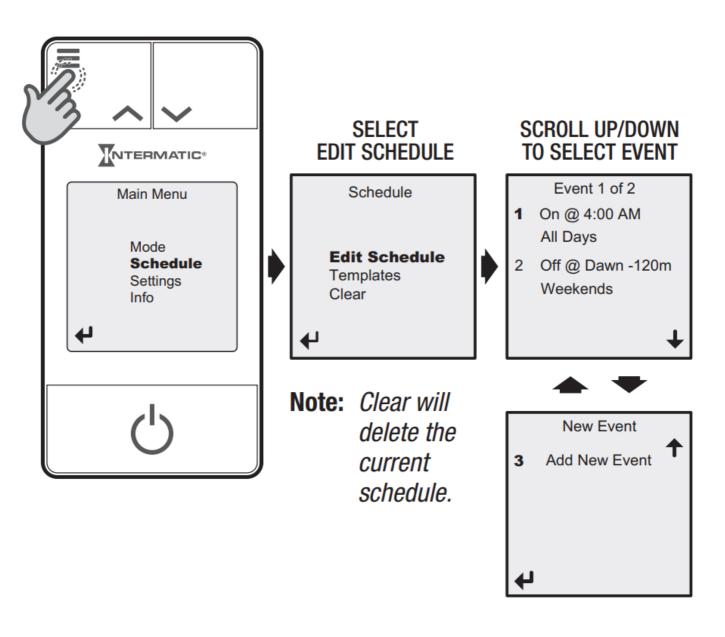
- 2. Scroll UP/DOWN to select:
 - Define Time
 - Dusk
 - Dawn
- 3. ENTER to confirm selection



- 4. UP/DOWN to increase/decrease time
- 5. ENTER to confirm

Note: The Offset function allows Dusk/Dawn events to activate before or after the actual Dusk/Dawn time for your location. You can set an offset of +/- 0 to 120 minutes.

EDIT SCHEDULE



Edit Event

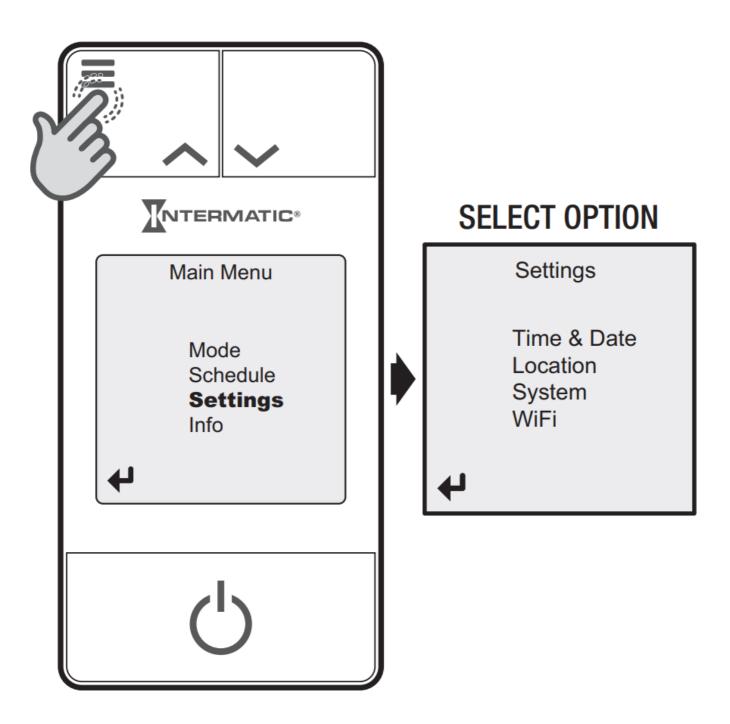


- · ENTER to select event
 - EDIT to change the event (Refer to page 12 for options)
 - CLEAR to remove event from schedule

ERROR MESSAGES

Error	Resolution
No Days	Add a day to your event. Options include: • All Days • Weekdays • Weekends • Define Days
Duplicates	A duplicate event exists. Modify or cancel your event.
No Time	Add a time to your event. Options include: Define Time Dusk Dawn
No Memory	Remove an event before adding a new one.

SETTINGS

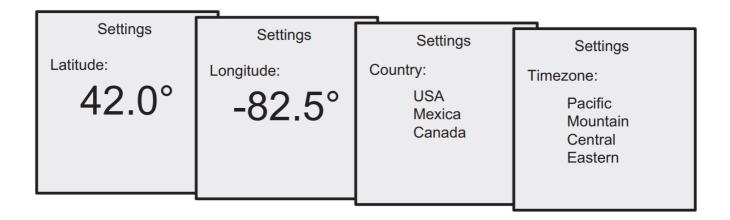


Menu Options

Time & Date

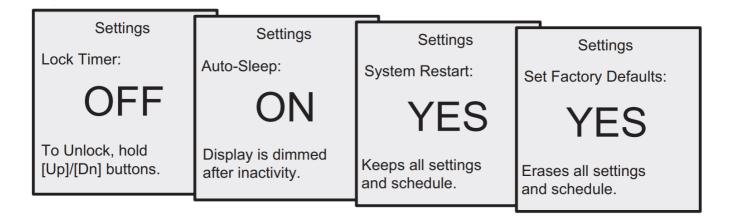


Location



Program your latitude, longitude, country and time zone.

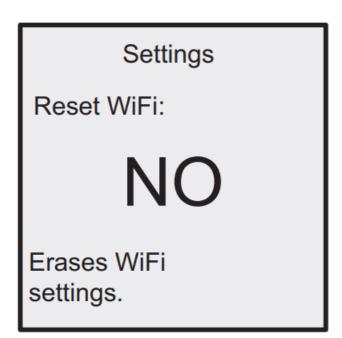
System



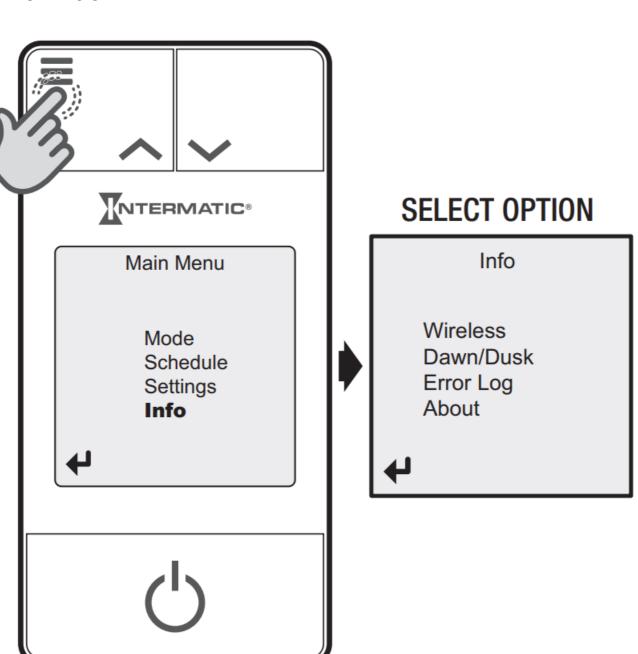
Lock Timer	 Prevents access to Timer schedules and functions To unlock: press and hold the UP and DOWN buttons for three seconds
Auto-Sleep	Dims display after one minute of inactivity
System Restart	 Resets timer but maintains all settings and schedules Restores communication between the timer and router Applies to STW700W only
Set Factory Default s	Restores timer to out-of-box condition Clears programming, time settings, schedules, error log and wi-fi settings

Wi-Fi

Clears and resets your Wi-Fi to Acess Point Mode. To re-establish a Wi-Fi connection refer to the app.



INFO MENU OVERVIEW



Menu Options

Wireless Settings (STW700W model only)

This option lets you view your IP Address, identify your Timer SSID number, and view your security PIN information.

Wireless Settings

IP: 192.168.255.42

Security: WPA

RSSI: Strong

SSID:

7DT-F8F005F1CD36

PIN: 46090

Note: Your security PIN is a unique code that allows the app to connect to your Timer.

Dawn/Dusk

This option shows you the current time, the date, and the time associated with Dawn or Dusk in your set location.

Dawn/Dusk

Time: 4:53 AM

Date: 08/04/16

Loc: 27.1, -169.2

Dawn: 7:15 AM

Dusk: 10:02 PM

Error Log

Scroll UP/DOWN through the error log to view any issues logged in your system.

Error Log

Error 1 of 10:

Date: 06/23/2016

Time: 11:42 PM

Error: E-7

About

View the information associated with your timer, including model, version, and manufacturing date. You can also find contact details for Intermatic, Inc.

About

Model: STW700W

v01.00.04

Mfg: 01L

Intermatic, Inc.

1.815.675.7000

Intermatic.com

LATITUDE/LONGITUDE

Major United States Cities

City	Lat. n°	Long. w°
Albany, NY	43	-74
Albuquerque, NM	35	-107
Amarillo, TX	35	-102
Anchorage, AK	61	-150
Atlanta, GA	34	-84
Austin, TX	30	-98
Baker, OR	45	-118
Baltimore, MD	39	-77
Bangor, ME	45	-69
Birmingham, AL	34	-87
Bismarck, ND	47	-101
Boise, ID	44	-116
Boston, MA	42	-71
Buffalo, NY	43	-79
Carlsbad, NM	32	-104
Charleston, WV	38	-82
Charlotte, NC	35	-81
Cheyenne, WY	41	-105
Chicago, IL	42	-88
Cincinnati, OH	39	-85
Cleveland, OH	41	-82
Columbia, SC	34	-81

Columbus, OH	40	-83
Dallas, TX	33	-97
Denver, CO	40	-105
Des Moines, IA	42	-94
Detroit, MI	42	-83
Dubuque, IA	43	-91
Duluth, MN	47	-92
El Paso, TX	32	-106
Eugene, OR	44	-123
Fargo, ND	47	-97
Flagstaff, AZ	35	-112
Fresno, CA	37	-120
Grand Rapids, MI	43	-86
Helena, MT	47	-112
Honolulu, HI	21	-158
Hot Springs, AR	35	-93
Houston, TX	30	-95
ID Falls, ID	44	-112
Indianapolis, IN	40	-86
Jackson, MS	32	-90
Jacksonville, FL	30	-82
Juneau, AK	58	-134
Kansas City, MO	39	-95

	25	
Key West, FL		-82
Klamath Falls, OR	42	-122
Knoxville, TN	36	-84
Las Vegas, NV	36	-115
Los Angeles, CA	34	-118
Louisville, KY	38	-86
Manchester, NH	43	-72
Memphis, TN	35	-90
Miami, FL	26	-80
Milwaukee, WI	43	-88
Minneapolis, MN	45	-93
Mobile, AL	31	-88
Montgomery, AL	32	-86
Montpelier, VT	44	-73
Nashville, TN	36	-87
New Haven, CT	41	-73
New Orleans, LA	30	-90
New York, NY	41	-74
Nome, AK	64	-166
Oklahoma City, OK	35	-97
Philadelphia, PA	40	-75
Phoenix, AZ	33	-112
Pierre, SD	44	-100

Pittsburgh, PA	40	-80
Portland, ME	44	-70
Portland, OR	46	-123
Providence, RI	42	-71
Raleigh, NC	36	-79
Reno, NV	40	-120
Richfield, UT	39	-112
Richmond, VA	38	-77
Roanoke, VA	37	-80
Sacramento, CA	39	-122
Salt Lake City, UT	41	-112
San Antonio, TX	29	-99
San Diego, CA	33	-117
San Francisco, CA	38	-122
San Juan, PR	19	-66
Savannah, GA	32	-81
Seattle, WA	48	-122
Shreveport, LA	32	-94
Sioux Falls, SD	44	-97
Spokane, WA	48	-117
Springfield, IL	40	-90
Springfield, MO	37	-93
St. Louis, MO	39	-90

Syracuse, NY	43	-76
Tampa, FL	28	-82
Virginia Beach, VA	37	-76
Washington, D.C.	39	-77
Wichita, KS	38	-97
Wilmington, NC	34	-78

Note: These charts provide approximate information on your Latitude and Longitude. Perform an app or Internet search for location specific values.

Major Canadian Cities

City	Lat. n°	Long. w°
Calgary, AL	51	-114
Edmonton, AL	54	-113
Fredericton, NB	46	-67
Halifax, NS	45	-64
London, ON	43	-82
Montreal, QC	46	-74
Nelson, BC	50	-117
Ottawa, ON	45	-76
Quebec, QC	53	-74
Regina, SK	50	-105
Toronto, ON	44	-79
Vancouver, BC	49	-123
Whitehorse, YT	61	-135
Winnipeg, MB	50	-97

Major Mexican Cities

City	Lat. n°	Long. w°
Acapulco	17	-100
Cancún	21	-87
Colima	19	-104
Culiacán	25	-107
Durango	24	-105
Guadalajara	21	-103
La Paz	24	-110
León	21	-102
Mérida	21	-90
Mexico City	19	-99
Monterrey	26	-100
Morelia	20	-101
Oaxaca	17	-97
Querétaro	21	-100
Tepic	22	-105
Tuxtla Gutiérrez	17	-93
Veracruz	19	-96
Villahermosa	18	-93
Zacatecas	23	-103

TROUBLESHOOTING

Timer switches at incorrect ti mes or skips some of the pro

grammed times.

Problem	Possible Cause	What To Do
Timer won't enter Auto or Ra ndom mode when you press Mode.	A schedule is not saved.	Choose a template or define a sch edule of events.
	The active schedule has an invalid setting.	Review the settings and revise the m as necessary.
	Timer is in Random mode, which varies sw itching times up to +/- 15 minutes.	Select the Auto Mode.

	The Astronomic and Defined switching tim es are in conflict, your DST may or may no t be turned on, or your timezone and locati on are not configured properly. Note: Your switch timer automatically skips any conflicting ON event as summer approaches to prevent unwanted operation of lights or other controlled devices.	Review your program settings and revise them as necessary.
Load only operates when the remote (3- way) switch is in one position or the Timer ign ores the remote switch.	The remote switch is wired incorrectly.	Recheck the wiring, especially for the jumper.
The Timer ignores a 3-way r emote switch even though it i s wired correctly or the load t urns off immediately after bei ng turned ON.	 The remote switch or switch timer is wir ed wrong. There is an excessive length of wire (gr eater than 100 feet). There is buried wire to the remote switch. The remote switch is not functioning properly or worn out. 	Contact a qualified electrician.
Timer shows ON but the ligh t or other con- trolled device i s OFF.	The light or controlled device itself may be switched OFF.	Make sure the light or controlled d evice is switched ON and plugged in.
Screen is OFF.	Timer is set up in Sleep Mode to turn the s creen OFF after one minute of inactivity.	 Hit any key to wake up Timer. To keep screen ON all the time, change the Sleep Mode setting to OFF.
	Timer display shows: or icon. Timer is in Access Point Mode or the Access Point Mode is not connected.	Follow app instructions to connect the Timer to your local Wi-Fi network
Timer is not connecting to m y local Wi-Fi network. (applie s to STW700W only)	Timer shows: icon. Timer is waiting for a connection. The route r password for the local router may be incorrect.	 Check Wi-Fi router to make sur e it is ON. Use app to revise Wi-Fi settings and reconnect to your router.

Can't connect my mobile device to my Timer. (applies to STW700W only)	No cicon is showing. Model does not have a Wi-Fi radio, or the radio is not turning ON.	 Make sure you have the STW7 00W Wi-Fi enabled Timer model. Try resetting the W-Fi and Time r. If problem persists, contact In termate.
	icon is showing. Timer is connected to a W i-Fi network. The mobile device may not be connected to the same network.	 Make sure your mobile device i s connected to the same local Wi-Fi network. To disconnect Timer from curre nt Wi-Fi network, perform a Wi-Fi reset at the Timer.
	icon is showing. Timer is in Access P oint Mode, waiting for mobile device connection.	Follow app instructions to connect to Timer. Make sure you are not in a wireless "dead zone" when attempting to connect.
	icon is showing. Timer is already connected to a mobile device.	 Check your mobile device Wi-Fi settings. If connected to the 7D T-xxx network, go to the app an d choose Search. If your mobile device is not connected, there is another mo bile device already connected. Disconnect the other device.

Note: For more troubleshooting tips, contact Intermatic Tech Support at: 815-675-7000.

WARRANTY

WARRANTY LIMITED WARRANTY

Warranty service is available by either (a) returning the product to the dealer from whom the unit was purchased or (b) completing a warranty claim online at www.intermatic.com. This warranty is made by: Intermatic Incorporated, Customer Service 1950 Innovation Way, Suite 300, Libertyville, IL 60048.

For warranty service go to: http://www.Intermatic.com or call 815-675-7000. For complete information on Intermatic products, literature and Contractors Guides visit www.intermatic.com.

CUSTOMERS SUPPORT

AscendTM

http://waterheatertimer.org/Intermatic-timers-and-manuals.html

Libertyville, Illinois 60048 www.intermatic.com



Documents / Resources



INTERMATIC Ascend STW700W Smart In-Wall Timer [pdf] Instruction Manual STW700W, ST700W, Ascend STW700W, Ascend STW700W Smart In-Wall Timer, Smart In-Wall Timer, Timer

References

- Intermatic.com
- O Intermatic timers and manuals
- I intermatic.com

Manuals+,