TanTime™

Systtem Timer

Operation Instructions

For Software Revisions 4.3 & 4.4

Digital Tanning Bed Timer Control Systems
for Complete Salon Control

Contents

Contents

List of Tables

Contents

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About This Manual

About This Manual

This manual covers the operation of all TanTime™ Systtem™ tanning bed timers that carry the software revision shown on the front of this manual. The software revision of a TanTime timer is printed on the label on the back of the programmed IC. The software revision is also displayed as the first pair of digits in the Reset-Sequence at power up.

Hardware Installation instructions

Timer hardware and installation are covered in the Timer specific Hardware Installation Instructions shipped with your TanTime™ Timer. Additional copies may be obtained from www.tantime.com, select “Support” and then the document of choice. You will need Adobe® Acrobat Reader® to view and print the document.

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General Timer Features

General Features and Characteristics of the Timer

Accidental Button Presses

To help prevent accidental button presses, there is a 4 second delay typically required between button presses.

Idle Timeout

As a safety feature, if time has been set and the tanning session was never started or was paused and not restarted, the timer will wait for approximately 1 hour and then clear the session time back to zero.

On-Line Indicator

While the timer is connected to an operating front-room-controller and the display shows “0”, pressing a key on the timer will cause “OL” (On-Line) to be shown on the timer display.

NOTE: *Observe the **Delay** and **Session** lamps while the display is showing “OL”. If these lamps are on, not only does the timer see valid messages from the front-room-controller, but it also has received it’s unique timer address from the front-room-controller within the last two minutes. This feature is a diagnostic asset.*

Lockout Indicator

If Lockout is enabled (see **Table 7**) while the timer is in Stand-Alone and the display shows “0”, pressing a key on the timer will cause “LO” (Lockout) to be shown on the timer display.

Programmable Features

Several features may be changed manually while the timer is operating Stand-Alone, off-line. These features are highlighted in **Table 7**. Instructions for changing these are found in the sections titled “**Reading and Clearing the Meters**” and “**Setting Timer Parameters**”**.**

Modes of Operation

Modes of Operation

TanTime™ timers covered by this manual have three distinct modes of operation, our own Systtem™ mode and two emulation modes. Specifically:

- Mode 0 is for use with a TanTime™ Systtem™ controller.
- Mode 1 is for use with a T-Max® controller or to remotely control another TanTime™ Systtem™ timer or another a T-Max® 3A® timer.
- Mode 2 is for use with an Intellitan® CCS® controller.

Applications for each of these modes are shown in **Table 1**. While in an emulation mode the TanTime™ timer will emulate the operation of either a T-Max® 3A® timer or Intellitan® timer. Please note that while the TanTime™ Timer emulates a 3A® timer or Intellitan® timer, it is not intended to perform identically to a 3A® timer or Intellitan® timer.

Selecting the Modes of Operation for Your Application

Choosing the Mode of Operation for your timer application is made simple using the following table. (**Table 1**)

Table 1

Timer Application	Operating Mode
Controlled remotely by a TanTime™ TT-40 front room controller	Mode 0
Stand-Alone Timer for a single bed	Mode 1
Controlled remotely by a T-Max® front room controller	Mode 1
Controlled remotely by another TanTime™ Systtem™ timer	Mode 1
Controlled remotely by a single 3A® timer	Mode 1
To remotely control another TanTime™ Systtem™ timer	Mode 1
To remotely control another 3A® timer	Mode 1
Controlled remotely by an Intellitan® CCS® controller	Mode 2
Controlled remotely by a single Intellitan® timer	Mode 2
To remotely control another Intellitan® timer	Mode 2

Note: While Stand-Alone operation may be accomplished in all modes, it should be noted that Mode 1 provides for timer parameters to be set or read and Timer meters to be read or cleared. For maximum utility and features, Mode 1 is recommended for Stand-Alone operation.

Modes of Operation

Reset-Sequence

Upon reset the Timer will display a "Reset-Sequence" described here and referred to throughout these instructions. **Table 2** describes the Reset-Sequence indications of the display and the **Delay** and **Session** lamps with their meanings for all operating Modes. For each Reset-Sequence there are five stages of indication. These stages are described from top to bottom in **Table 2**.

Table 2

Reset-Sequence Functions and Indications	Mode 0 (Systtem™ Mode)		Mode 1 (T-Max® Mode)		Mode 2 (Intellitan® Mode)	
First Display Indication	Software Revision		Software Revision		Software Revision	
Delay / **Session** - Lamps	On	Off	On	Off	On	Off
Second Display Indication	Timer Address		Timer Address		Timer Address	
Delay / **Session** - Lamps	On	On	On	On	On	On
Third Display Indication	Maximum time		Maximum time		Maximum time	
Delay / **Session** - Lamps	Off	On	Off	On	Off	On
Fourth Display Indication	"--"		"--"		"--"	
Delay / **Session** - Lamps	Off	Off	Off	Off	Off	Off
Fifth Display Indication *	" 0"		" 0"		"00"	
Delay / **Session** - Lamps	Off	Off	Off	Off	Off	Off

* If the Timer address has been set to 0 (zero), it has been set up as a master controller to remotely control another timer as described later in these instructions. In this case the Fifth Display Indication will be " A". This will be displayed until a slave timer is found. After finding a slave timer (with an address of 1) the master controller will display " 0" or "00" as sown in the table above.

Determining the Operating Mode

To determine the operating mode of the timer, apply power to the timer and observe the Reset-Sequence. When the Reset-Sequence completes, if the display shows "0", the Timer is in Mode 0 or Mode 1. If the display shows "00" the Timer is in Mode 2 (Intellitan® Mode).

Setting the Operating Mode

To set the Operating Mode see "**Setting Timer Parameters**" on the next page.

Setting Timer Parameters

About the Timer Parameters

This full featured tanning bed controller has many parameters that must be set up for the specific application. **Table 3** lists only the parameters that may be manually set. For a list of all parameters see **Table 7.**

Setting Timer Parameters

In the following process, a specific parameter is indicated by a letter code shown for 2 seconds before the value digit(s) are shown. Pressing a button while the letter code is showing will have no effect. While the value digit(s) are shown the value may be changed by pressing the **Set Time** button. For an individual parameter, when the value reaches the upper limit stated in **Table 3**, continuing to press **Set Time** will roll the value over to the minimum stated for that parameter in **Table 3**. Pressing the **Start / Stop** button while the value digit(s) are shown will save the value shown and advance to the next parameter. When the **Start / Stop** button is pressed on the last parameter, the Timer will save that parameter, Reset and be ready for operation.

To read and set at the timer any of the parameters the timer must NOT be connected to a front-room-controller.

*(If the display shows "OL" when a button is pressed, it is still on-line and needs to be brought off-line. To do this remove the connection to the controller and turn the power to the timer off then on again. If the display shows "LO" then Stand-Alone Lockout is set to "1" . Stand-Alone Lockout must be cleared before attempting to perform any mode changes or operation without a front-room-controller. See **Table 7**.)*

You must start with the first parameter and go through to the last parameter in order. Any parameter can be accepted as displayed by pressing the **Start / Stop** button to advance to the next parameter. Changing a parameter is done with the **Set Time** button before advancing to the next parameter. To Begin:

- Press and hold the **Start / Stop** and then the **Set Time** buttons simultaneously. The display will show "‾ ‾". Immediately release both buttons and the timer will begin the Reset-Sequence.
- When the display shows "- -" press and hold both buttons again until the display goes blank, then release both buttons.
- The display flashes **OP** for 2 seconds, then displays the Operation Mode number. Press the **Set Time** button to change the Operating Mode. (See **Table 3**). Press **Start / Stop** to advance to the next parameter.
- The display flashes **Ad** for 2 seconds, then displays the current timer address. Press the **Set Time** button to change the address. Address 0 is reserved for using the timer to remotely control a second timer operating in the same Mode. See details for your chosen operating mode under **Operating as a Remote Controller for a Single Bed (Address set to Zero)**. Press **Start / Stop** to advance to the next parameter.
- The display flashes **Pd** for 2 seconds, then displays the prestart delay time. Press the **Set Time** button to change the time. Press **Start / Stop** to advance to the next parameter.
- The display flashes **SL** for 2 seconds, then displays the Maximum Session time. Press the **Set Time** button to change the time. Press **Start / Stop** to advance to the next parameter.
- The display flashes **cd** for 2 seconds, then displays the Cool Down time. Press the **Set Time** button to change the time. Press **Start / Stop** to advance to the next parameter.
- The display flashes **r** for 2 seconds, then displays the displays the Run Mode number. Press the **Set Time** button to change the Run Mode. (See **Table 3**). Press **Start / Stop** to advance to the next parameter.

Setting Timer Parameters

- The display flashes **P** for 2 seconds, then displays the displays the Pause Mode. Press the **Set Time** button to change the Pause Mode. (See **Table 3**). Press **Start / Stop** to advance to the next parameter.
- The display flashes **Cb** for 2 seconds, then displays the displays the Clean Bed Mode. Press the **Set Time** button to change the Clean Bed Mode. (See **Table 3**). Press **Start / Stop** to advance to the next parameter.
- The display flashes **CC** for 2 seconds, then displays the displays the Clean Clear Mode. Press the **Set Time** button to change the Clean Clear Mode. (See **Table 3**). Press **Start / Stop** to complete setting the Parameters and return to timer operation.

Table 3

	TanTime Control Feature Number	Delay Lamp	Session Lamp	Parameter Letter Code (flashed)	Value Range
Operating Mode	NA	Off	Off	OP	0 = Tantime™ Mode 1 = T-Max® Mode 2 = Intellitan® Mode
Timer Address	1	On	On	Ad	1 to 99 *
Stand-Alone Delay Time	2	On	Off	Pd	0 to 10 (in minutes)
Maximum Session Time	14	Off	On	SL	2 to maximum chip time ‡
Cool Down Time	9	Off	Off	cd	0 to 10 (in minutes) (Number of minutes after end of a session that a new session can not be started)
Run Mode *(Stand-Alone, After Delay)* ‡‡	15	Off	Off	r	0 = Bed starts automatically after delay time 1 = After delay, session time runs, but bed does not start until user presses Remote Start / Stop
Pause Mode	12	Off	Off	P	0 = When session is paused timer will continue to count down 1 = When session is paused timer will stop counting down
Clean Bed	7	Off	Off	Cb	0 = Clean Bed mode disable 1 = Clean Bed mode enabled
Clean Clear	11	Off	Off	CC	0 = Press and release will instantly clear 1 = Press and hold button for 4 seconds to clear
Reset-Sequence begins					

* Use addresses 1 through 99 to use the timer with a front room controller. Address 0 is reserved for using the timer to remotely control a second timer operating in the same Mode. See **Operating as a Remote Controller for a Single Bed (Address set to Zero)** on the next page.

‡ The Maximum time hard programmed into the timer chip.

‡‡ In addition to Run Modes 0 and 1 an “Indefinite Start Delay” may be used by setting time on the timer and NOT pressing **Start / Stop** on the timer. In this manner the session will start only when the user presses the **Remote Start / Stop** button in the room**.**

Setting Timer Parameters

Using the Timer to Remotely Control a Single Bed (Address set to 0)

The TanTime™ Systtem™ timer may be used to remotely control another timer in a master / slave fashion. The ™ Systtem™ Timer to be used as the master should be located remote of the bed and set to an address of 0 (zero). The slave timer should be either another ™ Systtem™ timer, a T-Max® 3A® style timer, or an Intellitan® timer located either in or near the tanning bed. The slave timer must be set to an address of 1 (one). The Operating Mode of the master timer should be set to match the slave timer. Connect these timers to one another using the appropriate cable for your timers. This allows the master timer (address set to 0) to control ONE timer (address set to 1) located in or near the bed. The slave timer responds the same as if controlled by a front room controller.

Setting Parameters to Remotely Control another Timer (Address set to 0)

In the following process, a specific parameter is indicated by a letter code shown for 2 seconds before the value digit(s) are shown. Pressing a button while the letter code is showing will have no effect. While the value digit(s) are shown the value may be changed by pressing the **Set Time** button. For an individual parameter, when the value reaches the upper limit stated in **Table 4**, continuing to press **Set Time** will roll the value over to the minimum stated for that parameter in **Table 4**. Pressing the **Start / Stop** button while the value digit(s) are shown will save the value shown and advance to the next parameter. When the **Start / Stop** button is pressed on the last parameter, the Timer will save that parameter, Reset and be ready for operation.

To read and set at the timer any of the parameters the timer must NOT be connected to a front-room-controller and you must start with the first parameter and go through to the last parameter in order. Any parameter can be accepted as displayed by pressing the **Start / Stop** button to advance to the next parameter. Changing a parameter is done with the **Set Time** button before advancing to the next parameter. To Begin:

- Press and hold the **Start / Stop** and then the **Set Time** buttons simultaneously. The display will show "‾ ‾". Immediately release both buttons and the timer will begin the Reset-Sequence.
- When the display shows "- -" press and hold both buttons again until the display goes blank, then release both buttons.
- The display flashes **OP** for 2 seconds, then displays the Operation Mode number. Press the **Set Time** button to change the Operating Mode. (See **Table 4**). Press **Start / Stop** to save and advance to the next parameter.
- The display flashes **Ad** for 2 seconds, then displays the current timer address. Press the **Set Time** button to change the address to 0 (zero). Address 0 is reserved for using the timer to remotely control a second timer operating in the same Mode. Press **Start / Stop** to advance to the next parameter. If the Operating Mode was set to Mode 2 (Intellitan® Mode), pressing **Start / Stop** will end the parameter setting and start the timer operating as a master controller.
- (For Operating Modes 0 or 1 only) The display flashes **Pd** for 2 seconds, then displays the Prestart Delay time. Press the **Set Time** button to change the time. This timer will override the Prestart Delay time set in the slave timer being controlled. Press **Start / Stop** to advance to the next parameter.
- (For Operating Modes 0 or 1 only) The display flashes **rS** for 2 seconds, then displays the remote Start Mode. Press the **Set Time** button to change the Start Mode. (See **Table 4**). Press **Start / Stop** to complete setting the Parameters and return to timer operation..

Setting Timer Parameters

Table 4

	TanTime Control Feature Number	Delay Lamp	Session Lamp	Parameter Letter Code (flashed)	Value Range
Operating Mode	NA	Off	Off	OP	0 = Tantime™ Mode 1 = T-Max® Mode 2 = Intellitan® Mode
Timer Address	1	On	On	Ad	0 (Sets Timer as a Master Controller)
* Prestart Delay Time	2	On	Off	Pd	0 to 10 (in minutes) (over rides Slave Timer Delay)
* Start Mode *(Only shown if timer address is set to 0)*	NA	Off	Off	rS	0 = Session time will start immediately after delay but bed will be off 1 = Session time will start immediately after delay and bed will turn on 2 = Session will not start until Start / Stop is pressed on remote timer **
Reset-Sequence begins					

* When the Operating Mode is set to 2 (Intellitan® Mode) the Prestart Delay set in the slave timer is used. The Start Mode for Mode 2 is always Start Mode 1 (bed turns on immediately when delay ends).

** When the Start Mode 2 is selected (Infinite delay) the Prestart Delay value is ignored. The master controller delay lamp will flash to indicate prestart delay and the display will show the session time until the session is started at the slave timer. If the slave is another TanTime™ Systtem™ timer the session will clear to 0 after one hour if the session is not started.

Mode 0 (Systtem™) Operation

Operating in Systtem™ Mode (Mode 0)

While in Systtem™ Mode the timer may be connect to and controlled by a TanTime™ TT-40™ or equivalent front-room-controller. Refer to the TT-40™ Instruction Manual for installation and operating instructions.

Mode 1 (T-Max®) Operation

Stand-Alone Operation in Mode 1

Stand-Alone operation is initialized when the Timer is powered on and is NOT connected to an operating front-room-controller or another timer set to address 0. While operating as a Stand-Alone Timer All Control Features shown in **Table 7** are applicable. To set an operating parameter of **Table 7** see the previous section, **Setting Timer Parameters**. To read or clear a timer meter of **Table 7** while in Stand-Alone operation, see the later section; **The Internal Meters (Mode 1).** Note that the Timer can not be used in Stand-Alone if the Lockout feature is enabled. (See **Table 7** for information on the Lockout feature.)

Running a Tanning Session Manually

The timer must be idle, i.e., ready to use with the display showing "0" and neither the Delay or Session lights illuminated nor flashing. Press the **Set Time** button to advance the displayed value to the desired session time. If the displayed value is greater than desired, you must continue advancing through the Maximum Session Time for your timer. (The Maximum Session Time for your timer is covered in the previous section titled **Setting Timer Parameters**.)

With the desired session time displayed, pressing the **Start / Stop** button will start the tanning session. Note that once a tanning session has been started it will be recorded in the meters even if it is canceled before the bed is turned on. (An "Indefinite Start Delay" may be used by setting time on the timer and NOT pressing **Start / Stop** on the timer. In this manner the tanning bed / booth will start only when the user presses the **Remote Start / Stop** button in the room**.**)

Terminating a Delay Time Manually

Once a tanning session has been started, if a Stand-Alone Delay time has been set, the display will now show the delay time and the Delay lamp will flash. The delay time may be bypassed and the tanning bed started by pressing the **Start / Stop** button or the **Remote Start / Stop** button in the room if provided. The session time will now be displayed, the Session lamp will flash slow, and the tanning bed will start.

Pausing a Tanning Session Manually

Press the **Start/Stop** (or **Remote Start/Stop** button if provided) once to pause a tanning session. Press the **Start/Stop** (or **Remote Start/Stop** button if provided) again to resume a session.

Note: There must be a minimum of 4 seconds between button presses.

Canceling a Tanning Session Manually

When operating in Stand-Alone and the session has been paused for a minimum of four seconds as described above, the session may then be terminated by pressing the **Set Time** button.

*Note: Canceling a session using the **Set Time** button is disabled while operating under a front-room-controller.*

Clearing a Clean Bed Alert

If the Clean Bed mode is enabled, when the tanning session has been completed the display will be blank and both the **Delay** and **Session** lamps will illuminate. After cleaning the room for the next user, press and hold **Set Time** button or a remote **Start / Stop** if provided, until both the **Delay** and **Session** lamps go out and the display shows "0". (If only the **Session** lamp goes out and the display remains blank, the Cool Down mode has been enabled and must time out. It is not possible to bypass the Cool Down cycle once it has begun.)

Mode 1 (T-Max®) Operation

Slave Operation with a T-Max® Style Front-Room-Controller in Mode 1

While in Mode 1 the timer may be connected to and be controlled by a T-Max® front-room-controller or equivalent. In this mode the timer will emulate a 3A® timer and perform with all the control features given in **Table 7** of this manual. To set or read a control feature or meter see the instructions for your front-room-controller. Most features may also be read or changed manually while the timer is operating Stand-Alone, off-line. These features are highlighted in **Table 7**. While it is recommended that these parameters be changed from the front-room-controller, instructions for manually changing these are found earlier in this manual under "**Setting Timer Parameters**".

Starting a Session or Canceling Delay Time while under a Front Room Controller

See the documentation for your front-room-controller for setting up and starting a session. If a delay time has been set at the controller, the delay time may be canceled and the session immediately started at the timer by pressing the **Start / Stop** button or by pressing the **Remote Start / Stop** button if provided.

Note: *the Delay Time Parameter in the Timer is for Stand-Alone operation only and is not used when connected to a front-room-controller. The delay time must be set in the front-room-controller parameters or the salon software if used. (See your front room controller instructions or salon software instructions.)*

Pausing, Resuming or Canceling a Session while under a Front Room Controller

Press the **Start/Stop** button (or **Remote Start/Stop** button if provided) once to pause a session. Press the button again to resume a session. While operating under a front-room-controller, the session can be canceled ONLY through the front-room-controller.

(Note: There must be a minimum of 4 seconds between button presses.)

See the documentation for your front-room-controller for running, pausing or canceling a session through the controller.

Clearing a Clean Bed Alert

If the Clean Bed mode is enabled, when the session has been completed the display will be blank and both the **Delay** and **Session** lamps will illuminate. After cleaning the room for the next user, press and hold **Set Time** button, or a **Remote Start/Stop** if provided, until both the **Delay** and **Session** lamps go out and the display shows "0". (If only the **Session** lamp goes out and the display remains blank, the Cool Down mode has been enabled and must time out. It is not possible to bypass the Cool Down cycle once it has begun.)

Mode 1 (T-Max®) Operation

Master Controller (Address set to 0) to Remotely Control a Single Bed in Mode 1

The TanTime™ Systtem™ timer may be used to remotely control another TanTime™ Systtem™ timer or a T-Max® 3A® style timer in a master / slave fashion. To set up a TanTime™ Systtem™ timer to control another timer see **Setting Parameters to Remotely Control another Timer (Address set to 0)** earlier in this manual.

The Master Controller may set the session time (up to the maximum time allowed on the slave timer) and cancel the current operation. The Master Controller displays the status of the slave timer at all times. **Table 5** lists the display status and meanings of each indication on the Master Controller.

Master Controller Operation

NOTE: *Both the Master Controller and the slave must be in the same Operating Mode.*

Reset-Sequence

As shown in **Table 2**, the Reset-Sequence ends with the display showing " A" until a slave timer is found. Pressing the **Start / Stop** button while the display shows " A" will pause the "transmit" function of the Master Controller, causing the display to flash " A". The master controller will not communicate with the slave timer when transmit is paused. This allows the slave timer to be accessed manually to read meters, set parameters, or other necessary manual operations. Once the slave timer is ready, pressing the **Stop / Start** button resumes operation. Pressing the **Set Time** button while the display is flashing " A" will reset the Master Controller. After the Master Controller has found the slave timer it will continually display the status of the slave timer.

Starting a Session

The slave timer must be idle to start a session. The displays of both timers will show " 0" (zero). Pressing the **Set Time** button on the Master Controller will turn on the **Session** lamp and the display will show the maximum time allowed on the slave timer. You may press the **Set Time** button on the Master Controller to change the time to a value between zero and this maximum. Once the desired time is displayed pressing the **Start / Stop** button will send the time to the slave timer and start the session. To cancel the session without starting set the time to zero and press the **Start / Stop** button.

Status Display

Once the slave timer has been found, the Master Controller continuously displays the status of the slave timer. See **Table 5** for a listing of displays and the meanings of each. Pressing and holding the **Set Time** button while the slave timer is in session will display the remaining seconds for the current event. This is a good way to monitor exact status of the remote timer. Note: Minutes are displayed as whole minutes, i.e. A session time of 16 minutes and 29 seconds will be displayed as 17 minutes. Pressing and holding the **Set Time** button will display the 29 seconds.

Master Controller Operation (Continued)

Canceling a Session

To cancel a session or event press the **Start / Stop** button on the Master Controller. The display will flash the current status of the slave timer. To cancel the event press the **Set Time** button. To escape without canceling the current event press the **Start / Stop** button and the display will stop flashing. For example, to end a running session;

- Press the **Start / Stop** button on the Master Controller. The display will flash the current status of the slave timer.
- Press the **Set Time** button on the Master Controller. The display will show the Cool Down time set on the slave timer and the bed lamps will turn off. If the Cool Down time is more than 0, the **Session** lamp will be on. If the Clean Bed feature is enabled, both the **Session** and **Delay** lamps will be on.
- Pressing the **Start / Stop** button again will allow you to clear the Clean Bed condition if it was set. The display will start flashing the Cool Down time remaining. (" 0" if no Cool Down time is remaining)
- Pressing the **Set Time** button will clear the Clean Bed condition. The **Session** lamp will turn off and, if the Cool Down time is at 0, the **Delay** lamp will also go off.
- Note: *The Cool Down time may not be cleared in any fashion.*

Resetting the Master Controller

To reset the Master Controller remove power from the timer then reapply.

Table 5

Each lamp may be Off, On solid, flash Slow (once per second), or flash Fast (twice or more per second).

Display	Delay Lamp	Session Lamp	Timer Status
A	Off	Off	Looking for slave timer.
Flashing A	Off	Off	Transmit paused. Restart by pressing **Start / Stop**
0 - 30	Fast	Off	Slave timer in prestart delay. Numeral shows delay time remaining. NOTE: if start mode = 2 then slave unit is waiting for session start. Numeral shows session time.
0 - 30	Off	Slow	Slave timer is running session. Numeral shows session time remaining.
0 - 30	Off	Fast	Slave timer is paused. Numeral(s) show session time remaining.
0 - 30	On	On	Slave unit indicating dirty bed. Numeral(s) show cool down time remaining.
0 - 30	On	Off	Slave timer in cool down delay. Numeral(s) show cool down time remaining.
Flashing 0 - 30	Same as slave status	Same as slave status	The Master Controller is ready to cancel the current operation of the slave. Press **Start / Stop** to continue current the operation of the slave. Press **Set Time** to cancel the current operation of the slave.

Mode 1 (T-Max®) Operation

Internal Meters for Mode 1

There are six internal meters shown in **Table 7** that may be read while in Stand-Alone operation. Three of these meters, TanTime™ Control Features 3, 5 & 4, may also be cleared at the Timer or by the front-room-controller. One meter, TanTime™ Control Feature 6, may only be cleared by the front-room-controller. Two meters, TanTime™ Control Features 10 and 13, are permanent and may NOT be cleared at the Timer or by the front-room-controller. The Permanent Hour meter, TanTime™ Control Feature 13, is an exclusive feature of TanTime™ and may not be read by a T-Max**®** Manager. **Table 6** illustrates all of these meters.

Reading and Clearing the Meters

To read the six meters described above the Systtem™ Timer must be in Mode 1 and off-line. Press and hold the **Start / Stop** and then the **Set Time** buttons simultaneously. The display will show "‾ ‾". Continue holding both buttons until the display goes blank, then release both buttons. The display will show "rS". This indicates the following data will be the Resetable Session counter. Press the **Start / Stop** button to advance to the first two digits of the counter. Record these digits on the Systtem™ Timer Meter Log Sheet in the left two spaces under "rS" "# of Sessions". Press **Start / Stop** again. The display will blink and then display the next two digits. Write these in the center two spaces on the Log Sheet. Press **Start / Stop** again. The display will blink and display the last two digits of this meter. Write these in the right two spaces on the Log Sheet. Press **Start / Stop** again. The display is now blinking "cS". This indicates "clear Session Counter".

While the display is blinking "cS", you may clear the meter to "000000". To clear this meter, press and hold the **Set Time** button for about 2 seconds. The display changes to the next function, in this case, "rH". If you do not want to clear the meter, do NOT press **Set Time**, but press **Start / Stop** again to advance to the next function, in this case, "rH". Follow the same process to read and clear, if desired, the Session Hour and Lamp Hour meters.

To exit and stop reading the meters press and hold **Set Time** and immediately press and hold **Start / Stop** with it. This will cause the timer to stop reading meters and Reset.

Table 6 shows all of the meter indications. Pressing the **Start / Stop** button will advance to the next display. Pressing **Set Time** then immediately pressing **Start / Stop** will always cause the timer to exit reading the meters and start the Reset Sequence. When the display is flashing "cS", "cH", or "cL", pressing and holding the **Set Time** button until the display changes to the next function will always clear the meter that had just been displayed. The last three meters are permanent and may not be cleared.

Table 6

Meter to be Read	2 left digits	2 center digits	2 right digits	Meter to be Cleared
rS (# of Sessions)	*2 digits*	*2 digits*	*2 digits*	cS (flashing)
rH (Session Hours)	*2 digits*	*2 digits*	*2 digits*	cH (flashing)
rL (Lamp Hours)	*2 digits*	*2 digits*	*2 digits*	cL (flashing)
PS (# of Sessions)	*2 digits*	*2 digits*	*2 digits*	
PH (Session Hours)	*2 digits*	*2 digits*	*2 digits*	
PA (# of Stand-Alone Sessions)	*2 digits*	*2 digits*	*2 digits*	

Mode 1 (T-Max®) Features

Functions available in Mode 1 (3A® Emulation)

Table 7 lists Control Features available in the Systtem™ Timer while in Mode 1. Equivalent Parameter numbers are shown for the 3A® timer and T-Max® Manager where applicable.

Table 7

TanTime™ Control Feature Number	Description	Max Value	Default	Comment	3A® Equiv Parm #
§ 1	Address	98	* 99	Station Number of timer	1
§ 2	Delay Time	10	0	Start Delay in minutes for Stand-Alone Sessions	3
3	Resetable Sessions	65,535	0	Clearable session counter	5
4	Bulb Hours	65,535	0	Number of hours on bed lamps	6
5	Session Hours	65,535	0	Number of hours bed has been on (May be cleared to 0 hours)	7
6	Stand-Alone Sessions	65,535	0	Number of sessions run while operating in Stand-Alone	8
§ 7	Clean Bed	1	0	0 = Clean Bed mode disable 1 = Clean Bed mode enabled	9
8	Stand-Alone Lockout	1	** 0	0 = Stand-Alone enabled 1 = Stand-Alone disabled	10
§ 9	Cool Down	10	0	Minutes for bed to cool after a session. (0-10 minutes)	13
10	Permanent Sessions	65,535	0	Non-Clearable session counter. (Read Only value)	15
§ 11	Clean Clear	1	0	0 = Press and release will instantly clear 1 = Press and hold Up button for 4 seconds to clear	17
§ 12	Pause Mode	1	0	0 = When session is paused timer will continue to count down 1 = When session is paused timer will stop counting down	21
13	Permanent Hours	65,535	*** 0	Number of hours bed has been on (May NOT be cleared)	N/A
§ 14	Maximum Session Time	‡	*** ‡	The value may be between 2 minutes and the maximum time hard programmed into the timer chip.	N/A
§ 15	Run Mode (Stand-Alone After Delay)	1	*** 0	0 = bed starts automatically after delay time 1 = after delay, session time runs, but bed does not start until user presses **Remote Start / Stop**	N/A

§ These Operating Parameters may be changed in Stand-Alone operation.

* Valid room numbers are from 1 through 98. A value of 99 shown in the display indicates that the room number has not yet been assigned. An address of 0 sets the timer to function as a Master Controller.

** When Stand-Alone Lockout is set to 1, the Timer cannot be operated in Stand-Alone, even in the event of a front-room-controller failure.

*** Feature may not be read by a T-Max® Manager. This feature is exclusive to TanTime™.

‡ The Maximum time hard programmed into the timer chip.

Mode 1 (T-Max®) Features

Meanings of LED Indicators While in Mode 1

A two character display is provided along with two indicator lamps. They are the **Delay** indicator lamp and the **Session** indicator lamp. See the timer installation instructions for the position of these lamps. The following table (**Table 8**) gives the status of these lamps during timer operation in Mode 1.

Note: For timer status when operating as a Master Controller (Address set to zero) see **Table 5**.

Table 8

Each lamp may be Off, On solid, flash Slow (once per second), or flash Fast (twice or more per second).

Display	Delay Lamp	Session Lamp	Timer Status
0	Off	Off	Ready for time to be set
1 - 10	Fast	Off	Delay to start of Session is showing
1 - 30	Off	Fast	Timer is Paused & counting time
1 - 30	Off	Solid	Timer is Paused & Not counting time
1 - 30	Off	Slow	Session is running
LO	Off	Off	Timer is in Stand-Alone, a Timer button is pressed, & Lockout is enabled
OL	Off	Off	Timer is On-Line, a Timer button is pressed, & the Timer has NOT received it's own address
OL	On	On	Timer is On-Line, a Timer button is pressed, & the Timer HAS received it's own address
99	Off	Off	Timer is in Address-Auto-Set and waiting for the Start/Stop button to be pressed
Flashing 88	Off	Off	Timer is in Address-Auto-Set and waiting for the controller to assign an address to it
Flashing 01 - 98	Off	Off	Timer is in Address-Auto-Set and is displaying the timers new address. Timer will go to the Ready state when it again receives it's own address from the controller.
Blank	On	On	Bed is dirty & awaiting cleaning
Blank	Fast	Fast	Bed is dirty & Set Time button is pressed (waiting 4 seconds to clear)
Blank	On	Off	Session is complete and bed is in Cool-Down

Mode 2 (Intellitan®) Operation

Stand-Alone Operation in Mode 2

Stand-Alone operation is initialized when the Timer is powered on and NOT connected to an operating front-room-controller or another timer set to address 0. While operating as a Stand-Alone Timer All Control Features shown in **Table 11** are applicable. To set an operating parameter of **Table 11** see the previous section, **Setting Timer Parameters**. To read or clear a timer meter of **Table 11** while in Stand-Alone operation see the following section; **The Internal Meters (Mode 2)**.

Running a Tanning Session Manually

The timer must be idle, i.e., ready to use with the display showing "00" and both the Delay or Session lights off. Press the **Set Time** button to advance the displayed value to the desired session time. If the displayed value is greater than desired, you must continue advancing through the Maximum Session Time for your timer. (The Maximum Session Time for your timer is covered in the previous section titled **Setting Timer Parameters**.)

With the desired session time displayed, pressing the **Start / Stop** button will start the tanning session. Note that once a tanning session has been started it will be recorded in the meters even if it is canceled before the bed is turned on. (An "Indefinite Start Delay" may be used by setting time on the timer and NOT pressing **Start / Stop** on the timer. In this manner the tanning bed / booth will start only when the user presses the **Remote Start / Stop** button in the room**.**)

Terminating a Delay Time Manually

Once a tanning session has been started, if a Delay time has been set, the display will now show the delay time and the Delay lamp will flash. The delay time may be bypassed and the tanning bed started by pressing the **Start / Stop** button or the **Remote Start / Stop** button in the room if provided. The session time will now be displayed, the Session lamp will flash slow, and the tanning bed will start.

Pausing a Tanning Session Manually

Press the **Start/Stop** (or **Remote Start/Stop** button if provided) once to pause a tanning session. Press the **Start/Stop** (or **Remote Start/Stop** button if provided) again to resume a session.

Note: There must be a minimum of 4 seconds between button presses.

Canceling a Tanning Session Manually

When operating in Stand-Alone and the session has been paused for a minimum of four seconds as described above, the session may then be terminated by pressing the **Set Time** button.

*Note: Canceling a session using the **Set Time** button is disabled while operating under a front-room-controller.*

Clearing a Clean Bed Alert

If the Clean Bed mode is enabled, when the tanning session has been completed the display will show "99". After cleaning the room for the next user, press and hold the **Set Time** button or the remote **Start / Stop** button if provided, until both the display shows "00" or goes blank. (If the display is blank and the **Delay** and **Session** lamps flash, the Cool Down mode has been enabled and must time out. (See **Table 12**) It is not possible to bypass the Cool Down cycle once it has begun.)

Mode 2 (Intellitan®) Operation

Slave Operation with a Front-Room-Controller in Mode 2

The timer may be connected to and be controlled by a CompuSUN® controller or equivalent. The timer will emulate an Intellitan® timer and perform with all the control features given in **Table 11** of this manual. To set or read a control feature or meter see the instructions for your front-room-controller. Several features may be read or changed manually while the timer is operating Stand-Alone, off-line. These features are highlighted in **Table 11**. While it is recommended that these parameters be changed from the front-room-controller, instructions for manually changing these are found earlier in this manual under "**Setting Timer Parameters**".

Starting a Session or Canceling Delay Time while under a Front Room Controller

See the documentation for your front-room-controller for setting up and starting a session. If a delay time has been set, the delay time may be canceled and the session immediately started at the timer by pressing the **Start / Stop** button or by pressing the **Remote Start / Stop** button if provided.

Pausing, Resuming or Canceling a Session while under a Front Room Controller

Press the **Start / Stop** button (or **Remote Start / Stop** button if provided) once to pause a session. Press the button again to resume a session. While operating under a front-room-controller, the session can be canceled ONLY through the front-room-controller.

(Note: There must be a minimum of 4 seconds between button presses.)

See the documentation for your front-room-controller for running, pausing or canceling a session through the controller.

Clearing a Clean Bed Alert

If the Clean Bed mode is enabled, when the session has been completed the display will show "99". After cleaning the room for the next user, press and hold **Set Time** button, or a **Remote Start / Stop** if provided, until the display shows "00" or goes blank. (If the display is blank and the **Delay** and **Session** lamps flash, the Cool Down mode has been enabled and must time out. (See **Table 12**) It is not possible to bypass the Cool Down cycle once it has begun.)

Mode 2 (Intellitan®) Operation

Master Controller (Address set to 0) to Remotely Control a Single Bed in Mode 2

The TanTime™ Systtem™ timer may be used to remotely control another TanTime™ Systtem™ timer or an Intellitan® style timer in a master / slave fashion. To set up a TanTime™ Systtem™ timer to control another timer see **Setting Parameters to Remotely Control another Timer (Address set to 0)** earlier in this manual.

The Master Controller may set the session time (up to the maximum time allowed on the slave timer) and cancel the current operation. The Master Controller displays the status of the slave timer at all times. **Table 9** lists the display status and meanings of each indication on the Master Controller.

Master Controller Operation

NOTE: *Both the Master Controller and the slave must be in the same Operating Mode.*

Reset-Sequence

As shown in **Table 2**, the Reset-Sequence ends with the display showing " A" until a slave timer is found. Pressing the **Start / Stop** button while the display shows " A" will pause the "transmit" function of the Master Controller, causing the display to flash " A". The master controller will not communicate with the slave timer when transmit is paused. This allows the slave timer to be accessed manually to read meters, set parameters, or other necessary manual operations. Once the slave timer is ready, pressing the **Stop / Start** button resumes operation. Pressing the **Set Time** button while the display is flashing " A" will reset the Master Controller. After the Master Controller has found the slave timer it will continually display the status of the slave timer.

Starting a Session

The slave timer must be idle to start a session. The displays of both timers will show "00"). Pressing the **Set Time** button on the Master Controller will turn on the **Session** lamp and the display will show the maximum time allowed on the slave timer. You may press the **Set Time** button on the Master Controller to change the time to a value between zero and this maximum. Once the desired time is displayed pressing the **Start / Stop** button will send the time to the slave timer and start the session. To cancel the session without starting set the time to zero and press the **Start / Stop** button.

Status Display

Once the slave timer has been found, the Master Controller continuously displays the status of the slave timer. See **Table 9** for a listing of displays and the meanings of each. Pressing and holding the **Set Time** button while the slave timer is in session will display the remaining seconds for the current event. This is a good way to monitor exact status of the remote timer. Note: Minutes are displayed as whole minutes, i.e. A session time of 16 minutes and 29 seconds will be displayed as 17 minutes. Pressing and holding the **Set Time** button will display the 29 seconds.

Master Controller Operation (Continued)

Canceling a Session

To cancel a session or event press the **Start / Stop** button on the Master Controller. The display will flash the current status of the slave timer. To cancel the event press the **Set Time** button. To escape without canceling the current event press the **Start / Stop** button and the display will stop flashing. For example, to end a running session;

- Press the **Start / Stop** button on the Master Controller. The display will flash the current status of the slave timer.
- Press the **Set Time** button on the Master Controller. The display will show the Cool Down time set on the slave timer and the bed lamps will turn off. If the Cool Down time is more than 0, the **Session** lamp will be on. If the Clean Bed feature is enabled, both the **Session** and **Delay** lamps will be on.
- Pressing the **Start / Stop** button again will allow you to clear the Clean Bed condition if it was set. The display will start flashing the Cool Down time remaining. ("00" if no Cool Down time is remaining)
  NOTE: *The Clean Bed alert and Cool down notification at the Master Controller is deliberately NOT the same as at the slave timer. This provides better status to the user in the form of Cool Down timer remaining with simultaneous Clean Bed notification.*
- Pressing the **Set Time** button will clear the Clean Bed condition. The **Session** lamp will turn off and, if the Cool Down time is at "00", the **Delay** lamp will also go off.
- Note: *The Cool Down time may not be cleared in any fashion.*

Resetting the Master Controller

To reset the Master Controller remove power from the timer then reapply.

Table 9

Each lamp may be Off, On solid, flash Slow (once per second), or flash Fast (twice or more per second).

Display	Delay Lamp	Session Lamp	Timer Status
A	Off	Off	Looking for slave timer.
Flashing A	Off	Off	Transmit paused. Restart by pressing **Start / Stop**
00 - 30	Fast	Off	Slave timer in prestart delay. Numeral shows delay time remaining. NOTE: if start mode = 2 then slave unit is waiting for session start. Numeral shows session time.
00 - 30	Off	Slow	Slave timer is running session. Numeral shows session time remaining.
00 - 30	Off	Fast	Slave timer is paused. Numeral(s) show session time remaining.
00 - 30	Slow	Slow	Slave timer in cool down delay. Numeral(s) show Cool Down time remaining.
99	Off	Off	Slave bed is dirty and there is no Cool Down time remaining.
Flashing 00 - 30	* Same as slave status	* Same as slave status	The Master Controller is ready to cancel the current operation of the slave. Press **Start / Stop** to continue current the operation of the slave. Press **Set Time** to cancel the current operation of the slave.

* The Clean Bed alert and Cool Down notification at the Master Controller is deliberately NOT the same as at the slave timer. This is to provide better status to the user. At the Master Controller, Cool Down time and the Clean Bed alert, "99", will flash alternately on the display when both are active. When either alert ends the other status will continue being displayed by itself on the Master Controller until both alerts end.

Mode 2 (Intellitan®) Operation

Internal Meters for Mode 2

There are five internal meters shown in **Table 11** that may be read in Stand-Alone operation. Three of these meters, TanTime™ Control Features 3, 5 and 4, may also be cleared at the Timer. Two meters, TanTime™ Control Features 10 and 13, are permanent meters and may NOT be cleared at the Timer or by the front-room-controller.

Three of the meters, TanTime Control Feature Numbers 4, 10 and 13 may also be read by a CompuSUN® controller but only the Bulb Hours, Control Feature Number 4, may be changed by the CompuSUN® controller.

Reading and Clearing the Meters

You may use the "Systtem Meter Log Sheet", TanTime™ document number DOC40104, to record the meter data. Copies of this data sheet may be printed from www.tantime.com » Support page » "Systtem Meter Log Sheet".

To read the five meters described above, the Timer must be in Mode 2 and off-line. Press and hold the **Start / Stop** and then the **Set Time** buttons simultaneously. The display will show "¯ ¯". Continue holding both buttons down until the display goes blank, then release both buttons. The display will show "rS". This indicates the following data will be the Resetable Session counter. Press the **Start / Stop** button to advance to the first two digits of the counter. Record these digits on the Systtem Timer Meter Log Sheet in the left two spaces under "rS" "# of Sessions". Press **Start / Stop** again. The display will blink and then display the next two digits to be recorded. Write these in the center two spaces on the Log Sheet. Press **Start / Stop** again. The display will blink and then display the last two digits of this meter. Write these in the right two spaces on the Log Sheet. Press **Start / Stop** again. The display is now blinking "cS". This indicates "clear session meter".

While the display is blinking "cS", you may clear the meter to "000000". To clear this meter, press and hold the **Set Time** button until the display changes (about 2 seconds) to the next function, in this case, "rH". If you do not want to clear the meter, do NOT press **Set Time**, but press **Start / Stop** again to advance to the next function, in this case, "rH". Follow the same process to read and clear, if desired, the Session Hour and Lamp Hour meters.

To exit and stop reading the meters press and hold **Set Time** and immediately press and hold **Start / Stop** with it. This will cause the timer to stop reading meters and Reset.

Table 10 shows all of the meter indications. Pressing the **Start / Stop** button will advance to the next display. Pressing **Set Time** then immediately pressing **Start / Stop** will always cause the timer to exit reading the meters and start the Reset Sequence. When the display is flashing "cS", "cH", or "cL", pressing and holding the **Set Time** button until the display changes to the next function will always clear the meter that had just been displayed. The last two meters are permanent and may not be cleared.

Table 10

Meter to be Read	Left Digits	Center Digits	Right Digits	Meter to be Cleared
rS (# of Sessions, resetable)	*2 digits*	*2 digits*	*2 digits*	cS (flashing)
rH (Session Hours, resetable)	*2 digits*	*2 digits*	*2 digits*	cH (flashing)
rL (Lamp Hours, resetable)	*2 digits*	*2 digits*	*2 digits*	cL (flashing)
PS (# of Sessions, Permanent)	*2 digits*	*2 digits*	*2 digits*	
PH (Session Hours, Permanent)	*2 digits*	*2 digits*	*2 digits*	

Mode 2 (Intellitan®) Features

Functions available in Mode 2 (Intellitan® Emulation)

Table 11 lists Control Features available in the Systtem Timer. Equivalent Parameter numbers are shown for the Intellitan® timer and CompuSUN® controller where applicable.

Table 11

TanTime™ Control Feature Number	Description	Max Value	Default	Comment	Intellitan® Equiv Parm #
§ 1	Address	99	99	Station Number of timer	5
§ 2	Delay Time	10	* 0	Start Delay in tenths of minutes *	4
3	Resetable Sessions	65,535	*** 0	Clearable session counter	N/A
4	Bulb Hours	65,535	0	Number of hours on bed lamps	6
5	Session Hours	65,535	*** 0	Number of hours bed has been on (May be cleared to 0 hours)	N/A
§ 7	Clean Bed	1	0	0 =Clean Bed mode disable 1 = Clean Bed mode enabled	15
§ 9	Cool Down	10	* 0	Time for bed to cool after a session. (In tenths of minutes) *	3
10	Permanent Sessions	65,535	0	Non-Clearable session counter. (Read Only value)	18
§ 11	Clean Clear	1	*** 0	0 =Press and release will instantly clear 1 =Press and hold Up button for 4 seconds to clear	N/A
§ 12	Pause Mode	1	*** 0	0 =When session is paused timer will continue to count down 1 =When session is paused timer will stop counting down	N/A
13	Permanent Hours	65,535	0	Number of hours bed has been on (May NOT be cleared)	19
§ 14	Maximum Session Time	‡	‡	The value may be between 2 minutes and the maximum time hard programmed into the timer chip.	20
§ 15	Start Mode (Stand-Alone After Delay)	1	*** 0	0 =bed starts automatically after delay time 1 =after delay, session time runs, but bed does not start until user presses Remote Start / Stop	N/A

§ These Operating Parameters may be changed in Stand-Alone operation.

* When setting or displaying Delay or Cool Down times at the timer, time is set and viewed in minutes. When using a CompuSUN® controller the time is entered in tenths of minutes, but the timer rounds the tenths up to the next higher whole minute and stores the value in whole minutes, i.e., 1.1 minutes would be stored as 2 minutes.

*** Feature may not be read by a CompuSUN® controller. This feature is exclusive to TanTime™.

‡ The Maximum time hard programmed into the timer chip.

Mode 2 (Intellitan®) Features

Meanings of LED Indicators While in Mode 2

A two character display is provided along with two indicator lamps. They are the **Delay** indicator lamp and the **Session** indicator lamp. See the timer installation instructions for the position of these lamps. The following table (**Table 12**) gives the status of these lamps during timer operation in Mode 2.

Table 12

Each lamp may be Off, On solid, flash Slow (once per second), or flash Fast (twice or more per second).

Display	Delay Lamp	Session Lamp	Timer Status
00	Off	Off	Ready for time to be set
01 - 10	Fast	Off	Delay to start of Session is showing
01 - 30	Off	Fast	Timer is Paused & counting time
01 - 30	Off	Solid	Timer is Paused & Not counting time
01 - 30	Off	Slow	Session is running
OL	Off	Off	Timer is On-Line, a Timer button is pressed, & the Timer has NOT received it's own address
OL	Solid	Solid	Timer is On-Line, a Timer button is pressed, & the Timer HAS received it's own address
99	Off	Off	Bed is dirty & awaiting cleaning
99	Fast	Fast	Bed is dirty & Set Time button is pressed (waiting 4 seconds to clear)
Blank	Slow	Slow	Session is complete and bed is in Cool-Down
99	Slow	Slow	Bed is dirty & awaiting cleaning and bed is in Cool-Down

Support

The Company

Since 1994, TanTime™, a Division of Electronic Programming and Design, Inc. Has been developing and manufacturing enhanced digital timer systems for the indoor tanning industry.

TanTime™ continually accesses the most innovative design technology available incorporating state of the art technology in all it's Products. As an industry leader, TanTime™ updates and adds new products to it's growing line of digital timers and strives for complete customer satisfaction by providing a quality product and unsurpassed customer support.

Support

TanTime™ Dedication

TanTime™ is dedicated to ensuring that you receive the best customer support and technical assistance possible. To ensure that you receive the most efficient help possible, please be ready to produce model numbers of the TanTime™ equipment in concern and product part numbers. For repairs and returns please be prepared to produce date of purchase, name of original purchaser, and PO Number. An RMA is required for all returns including both repairs and return-for-credit equipment returns.

Contact Us

Telephone: Call TanTime™ / EPaD™ at **206-767-7262** Pacific Time M-F 9 AM to 5 PM, PST

Email: TanTime™ Technical Support: **info@tantime.com**

Returns and Repairs:

NOTE:

A Return Merchandise Authorization (RMA) number must be obtained from TanTime™ prior to shipping equipment to us for repair or return. The customer is responsible for all shipping costs.

To be issued an RMA Number Call TanTime™ at 206-767-7262, M-F, 9 AM to 5 PM, PT.

Shipping / Mailing Address:

You will receive the shipping address when obtaining your RMA number.

Sales - Ordering Additional Equipment:

Telephone: Call TanTime™ at 206-767-7262, Pacific Time, M - F, 9A - 5P.
Email: info@tantime.com
Visit Web Site: www.tantime.com