SmartLid User's Guide

19 June 2018 Stearman Press LLC

Version 0.10

PRELIMINARY DRAFT SUBJECT TO REVISION

Temperature Functions

Temperature Scale:

Press the F/C button to select the desired temperature scale. This will toggle the display between Fahrenheit and Celsius.

Average Temperature:

Press the Ave button to toggle between the average temperature and the instantaneous temperature. The AVE icon will be shown on the display. Note: the average temperature is calculated from the start of either the Count Down Timer or Elapse Timer.

Press and hold the Ave button until the AVE icon starts blinking. This will reset the average calculation. Note: either the CDT or ET must be running.

Temperature Calibration:

Press the Set and Ave buttons simultaneously to enter the Calibration mode. The temperature display will start blinking.

Press the CDT button to increase the displayed reading.

Press the ET button to decrease the displayed reading.

To save the calibration, press the [Set] button.

Timer Functions

The SmartLid has an Elapsed Timer and a Countdown Timer. Note that only one timer may be running a time.

Elapsed Timer:

Press the ET button to start the elapsed timer.

Press the ET button again to reset the elapsed timer.

Countdown Timer

Programming the CDT:

Press the CDT and Set buttons simultaneously to enter the CDT programming mode.

The left most digit in the Time display will start blinking.

Press the CDT button to increment the value. Note: the value will "roll over" to 0 if you press the button often enough.

Press the Set button to accept the value. The next digit will start blinking.

Repeat the selection process for all four digits.

The CDT value will be saved until changed.

Press the CDT to start the CDT. Press the CDT again to reset the timer to its programmed value. Press the button again to start the CDT.

The alarm buzzer will sound when the CDT reaches zero. Press the CDT to stop the buzzer and reset the CDT.

Agitation Timer

The SmartLid has an Agitation Timer to remind you to agitate the tank.

The timer can be set to either 30 seconds or 60 seconds.

The buzzer will sound three beeps every time the agitation interval is reached.

Press the AT button to start the Agitation Timer. Pressing the AT button again, will stop and reset the AT.

Hold down the Set button and press the AT to toggle the agitation interval. Release the Set button again to save the new value.

Temperature Compensation Function

The TCF will automatically adjust the timers based on the actual temperature of the tank.

The reference temperature used is 68° F (20° C).

When active, the timers will run slower if the actual temperature is below the reference temperature and will run faster if the actual temperature is above it.

The calculations use the standard temperature tables published by numerous film manufacturers.

If you're using the CDT, the set time will not change. However, the timer will run faster or slower based on the actual temperature.

The TCF does not effect the Agitation Timer. It always runs in real time.

Press the Comp button to activate the TCF function. The COMP icon will be displayed.

Pressing the Comp button again will cancel the TCF function and all timers will begin counting in real time. Note: the timers will not make any adjustments for the time shift that occurred while the TCF mode was active.

Backlight

To be determined...