Ss Brewtech FTSs Pro Touch User Manual

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ENGINEERING BETTER BEER
FTSs Pro Touch Product Guide

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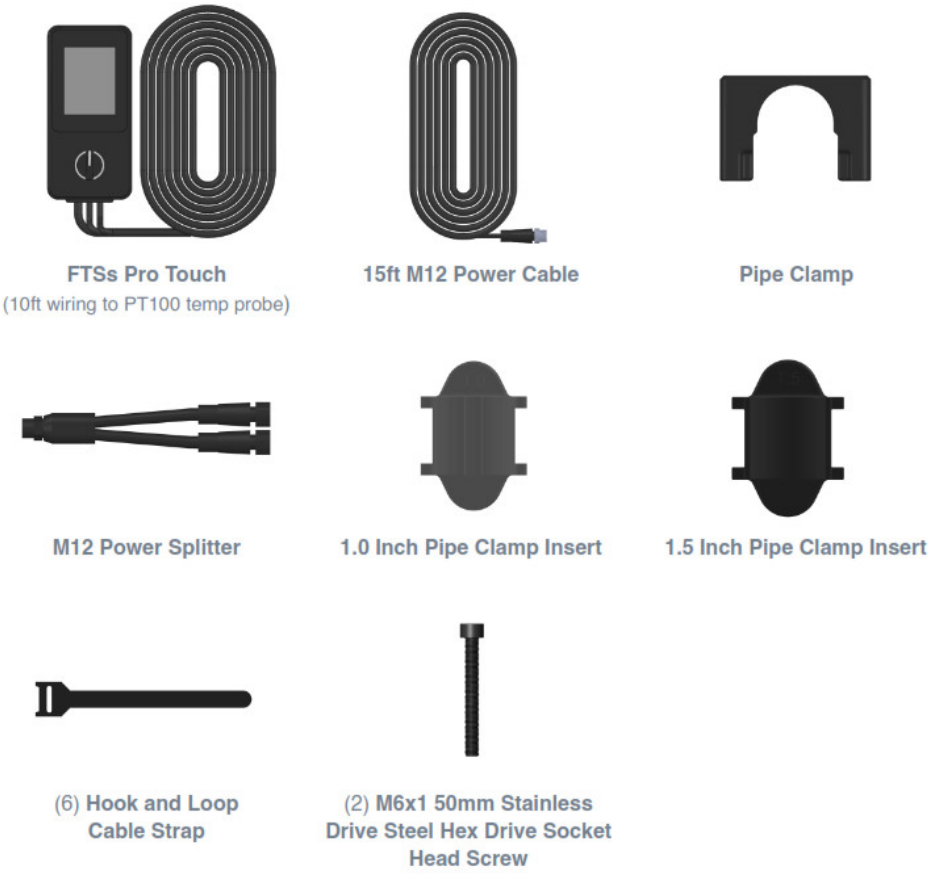
OVERVIEW

IN THE BOX



REQUIRED COMPONENTS (SOLD SEPARATELY)

- Solenoid Valve (24VDC with M12) in ½" NPT for Nano Jacketed Tanks (1bbl-3.5bbl) OR Solenoid Valve (24VDC with M12) in ¾" NPT for Pro Jacketed Tanks (5bbl+)
- 3-wire PT100 temperature probe (Included on Ss Bewitch Jacketed Tanks)
- FTSs Pro Touch Power Supply | 10 A (24VDC with M12)*

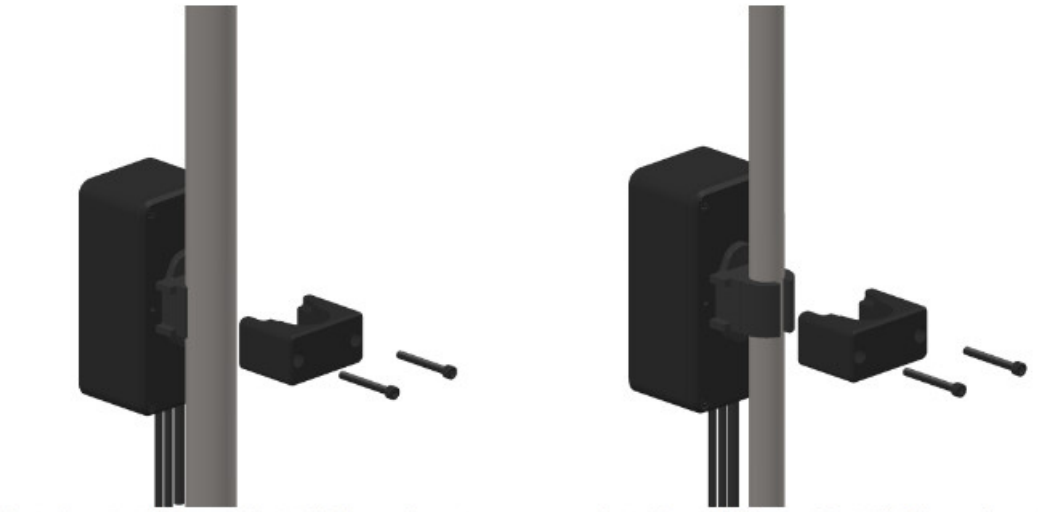
*One FTSs Pro Touch Power Supply | 10 A 10A power supply can power up to three FTSs Pro Touch setups with the use of the included M12 Power Splitters and the 2-pole M12 Extension Cable 25ft (sold separately.)

SYSTEM OVERVIEW

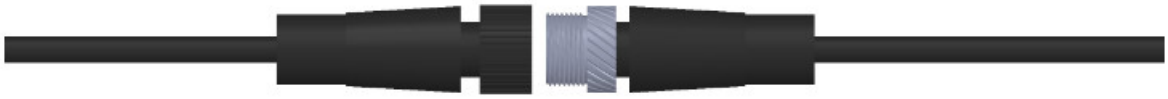
The FTSs Pro Touch Temperature Controller works in conjunction with a pressurized glycol loop system to provide temperature control over the contents of your vessel. It functions by using a temperature sensor to read the current temperature of your vessel, and triggering an output based on the set temperature in order to compensate. When cooling is called for, the solenoid valve will open to allow the flow of glycol through your vessel's cooling jacket (s) until the set temperature is achieved.

CONTROLLER ASSEMBLY

1. Remove components from packaging.
2a. Install 1.5" Pipe Clamp Insert to the FTSs Pro Touch on your tank's Blow Off Arm
2b. (Optional) Install 1" Pipe Clamp Reducer for tanks that have a 1" Blow Off Arm



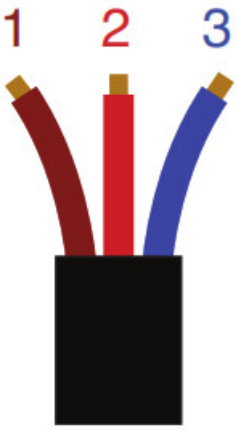
3. Connect the PT100 Temp Probe to 10ft Temperature Probe Wire (see SENSOR INSTALLATION section).
4. Run the wire from the FTSs Pro Touch to the installed solenoid valve set up. Connect via M12 connectors.



DO NOT PROCEED to the next step until the solenoid valve and pressurized piping loop have been completely installed to your tank.
5. Run the 15ft M12 Power Cable from the Controller box to the power supply. Connect via the M12 connectors. Do not connect the power supply to power until setup is complete.
6. Wrap Hook and Loop Straps around wiring to keep cables neat.

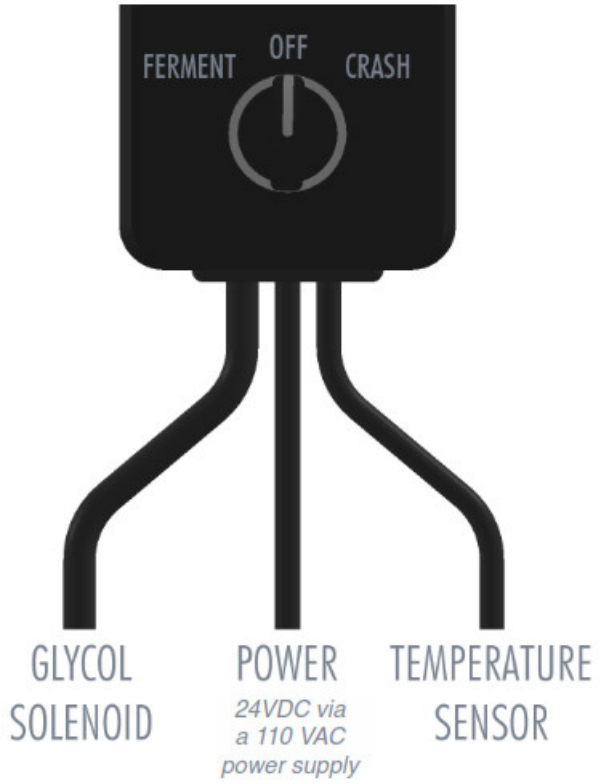
SENSOR INSTALLATION

The FTSs Pro Touch temperature controller comes with a 10ft cable with no connector on the end. The wire in this cable will connect to your 3 wire PT100 temperature sensor. If you are using an Ss Bewitch vessel, your tank comes equipped with a PT100 platinum resistance thermometer. The dark red wire connects to terminal 1, the light red connects to terminal 2 and the blue wire connects to terminal 3 on the thermometer’s plug.



SOLENOID INSTALLATION

The FTSs Pro Touch temperature controller is designed to operate with either a ½” (1-3.5 bbl Unitank) or ¾” (5 bbl and larger Unitank) electric solenoid valve connected using a M12 connector. Installation can be handled in a variety of ways based on preference and setup. We recommend installation of a manual bypass piping/valve arrangement, as well as piping/ valve arrangement to clear the line of glycol in the event that service is needed.



OPERATING INSTRUCTIONS

SET VESSEL NAME

When first turning your unit on, you will see a first-time vessel naming screen that will let you choose type of vessel, size, and a number for the vessel the FTSs Pro Touch is operating on. This vessel name will be used as the file name for the temperature data CSV file that can be exported (see Page 7 for details).

1. Select the correct vessel type by pressing “FERMENTER, BRITE TANK, or LAGER TANK”.
2. To set the VESSEL SIZE, press the digit on the right and adjust it to match your vessel.

3. To set an identifying number for the vessel, press the digit next to NUMBER and select the number of your choice. Note, we suggest starting with “1” for your first vessel and increasing to match the total amount of tanks. For example, if you have three 10 bbl fermenters, the first tank would be named FV10-1, and the remaining two would be FV10-2 and FV10-3 accordingly.
4. When finished, press “SET VESSEL NAME” and you will be taken to the First Time Setup Screen

FIRST TIME SETUP SCREEN

After setting the vessel name, you will see a first-time setup that will let you choose between Fahrenheit and Celsius as well as calibrate to your PT-100 probe. These settings can be changed later so select the options that work best for you and then select “COMPLETE SETUP”. You will not see this screen again unless you factory reset your controller.

FIRST TIME SETUP SCREEN

After setting the vessel name, you will see a first-time setup that will let you choose between Fahrenheit and Celsius as well as calibrate to your PT-100 probe. These settings can be changed later so select the options that work best for you and then select “COMPLETE SETUP”. You will not see this screen again unless you factory reset your controller.

TEMPERATURE SELECTION

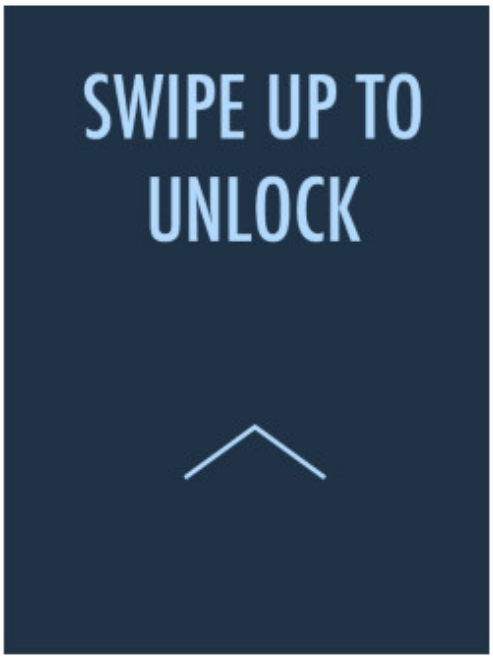
1. Select “SET TEMP” on the the main Temp Control Screen.
2. Adjust up or down as desired. You can also select a preprogrammed preset.
3. Select the Return Arrow “←” on the Set Temperature Screen.

DEFINING USER TEMPERATURE PRESETS

While setting the temperature (on both the FERMENT TEMP and CRASH TEMP modes) there are 3 programmable temperature presets for your convenience.

1. To program a preset, adjust the temperature up or down as desired.
2. Select and hold the desired preset box for 5 seconds. The screen will blink and save the preset.

LOCK SCREEN



After 90 seconds of inactivity, the controller's display will turn off to conserve power while still allowing the controller to function. To wake the screen, you can simply press the inactive touch screen. Upon registering a touch, the display will power on into the Lock Screen. To access the controller's functions, simply press and swipe upwards from the bottom of the display.

PAUSE & RESUME TEMPERATURE CONTROL

1. During operation when on the main Temp Control Screen, you can select "PAUSE" to stop the system and select RUN to resume operation. Please note that switching to either "FERMENT" or "CRASH" will automatically resume operation.

CHANGING BETWEEN FERMENTATION AND CRASH TEMP MODE

After you have finished your fermentation, you may want to cold crash your beer. This will drop your current temperature down to a low (user programmable) temperature in order to drop out the yeast biomass and other cold break particulates. We have included a separate temperature setting specifically for this purpose.
The “FERMENT” and “CRASH” modes both contain preset temperatures and the rotary switch allows the user to quickly and conveniently switch between fermentation temperatures and crash temperatures. All internal preset temperatures can be adjusted by the user..
On the FTSs Pro controller box, you may switch between “FERMENT” and “CRASH” temperature settings by rotating the switch clockwise or counterclockwise.

VIEWING TEMPERATURE READING GRAPH

During operation you will see a mini graph on the main Temp Control Screen, just below the Set/Current Temp readings. Pressing the mini graph on this screen will open the full graph detailing temperatures over time. From here you can view the temperature history and can export the log.

EXPORT TEMPERATURE READING GRAPH

1. To export your fermentation temperature log, select the “EXPORT” button to open the DATA EXPORT screen.
2. Insert a FAT32 formatted USB drive into the Touch Screen Display.
3. Select “EXPORT .CSV” and the screen will display the word “Exporting…” then automatically return you to the FERMENT screen.

   If the “EXPORT .CSV” button does nothing but light up when you press it, try the troubleshooting steps below.

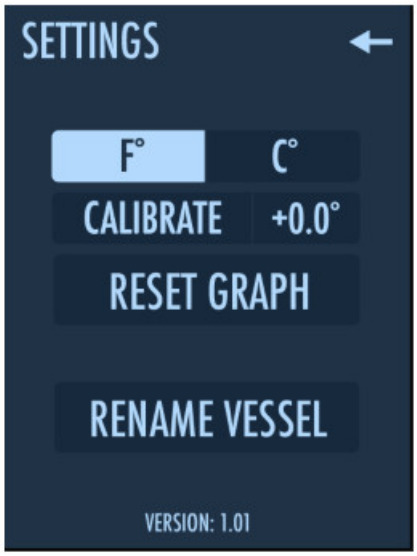
   1. Ensure you have a USB drive fully inserted in the USB port on the side of the FTSs Pro Touch.
   2. If the USB is installed and nothing happened, ensure the USB has the correct FAT 32 formatting.
   3. If neither of these work, please contact our technical support team for assistance

4. Select the Return Arrow “←” on the DATA EXPORT Screen.
5. To reset the graph data, press “RESTART GRAPH” from Settings Screen to clear the previous data log.

SETTINGS

SWITCH BETWEEN FAHRENHEIT AND CELSIUS SCALE MODES

1. Select Settings Cog “⚙” on the Start Up Screen or the main Temp Control Screen.
2. Select F° (for Fahrenheit reading) or C° (for Celsius reading) on the Settings Screen.
3. Select the Return Arrow “←” on the Settings Screen.
4. Select the Return Arrow “←” on the main Temp Control Screen.



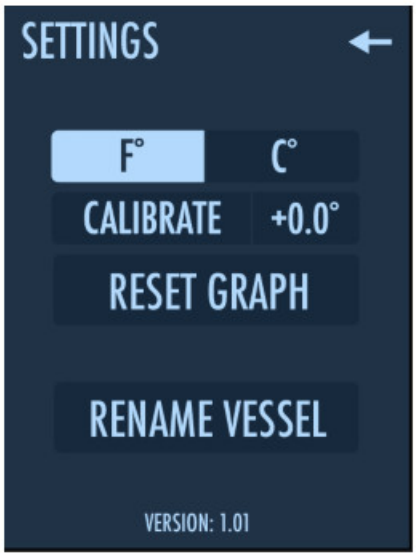
CALIBRATE TEMPERATURE PROBE (OFFSET)
Before use, it is important to ensure that your sensor is properly calibrated. The simplest way to calibrate your sensor is to use an ice-water mixture. Place your thermowell into the ice-water bath and then insert your sensor into the thermowell to prevent the sensor from getting wet. Wait a few minutes to allow the temperature to equalize while occasionally stirring the ice-water then record the temperature that is displayed. The reading should be 32.0F (0.0C). If the reading is different than 32.0F (0.0C) then this difference is your temperature offset needed to calibrate this particular sensor. Note, not all sensors will have the same calibrations offset so this process should be performed on each sensor.

1. Determine how many degrees you need to adjust the controller up to 12.0 degrees either way. This can be determined with a thermowell and an ice bath as described above.
2. Select Settings Cog "⚙" on the Start Up Screen or on the main Temp Control Screen.
3. Select "CALIBRATE" to bring up the Temp Calibration Screen.
4. Adjust up or down as desired.
5. Select the Return Arrow "←" on the Settings Screen.
6. Select the Return Arrow "←" on the main Temp Control Screen

Factory Reset

1. Select Settings Cog "⚙" on the Start-Up Screen or on the main Temp Control Screen.

2. Select and hold “RESET GRAPH” for 5 seconds. Your screen will blink and factory reset your controller. This will bring you to the initial setup process including Vessel Name Screen and the First Time Setup Screen.



Documents / Resources

	Ss Brewtech FTSs Pro Touch [pdf] User Manual

References

- SsBrewtech.com