

TRIN&STOR TANK SENSOR (P/N 84632)

INSTALLATION & OPERATING INSTRUCTIONS

Trin&Stor Model Numbers: S, SL, ST & S-SR
Trinity Model Numbers: Tft & Lx series
Version Date: 2011-12-20



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Introduction

The Trin&Stor Tank Sensor, part number 84632, is a 10kOhm NTC Thermister designed for installation into a tank Thermal-Well with an internal diameter of 10 mm (3/8") and a minimum internal length of 120 mm (4-3/4"). The Tank Sensor can be used to replace the TPI Thermostat (tank aquastat) included with the Trin&Stor tank. The Tank Sensor provides a temperature reading to an NTI-Trinity Tft or Lx series boiler, eliminating the need for a separate controller (e.g. tank thermostat or aquastat)*. The Tank Sensor incorporates a UL353 rated thermal cutoff switch designed to open at a temperature of 90°C (194°F).

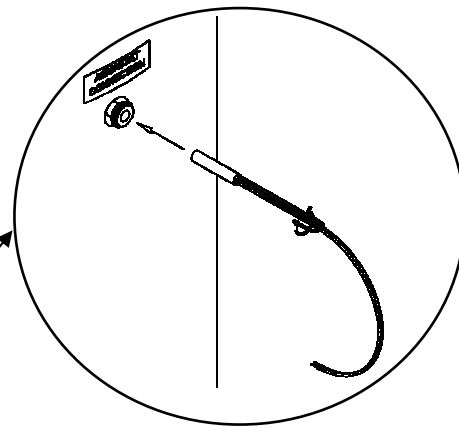
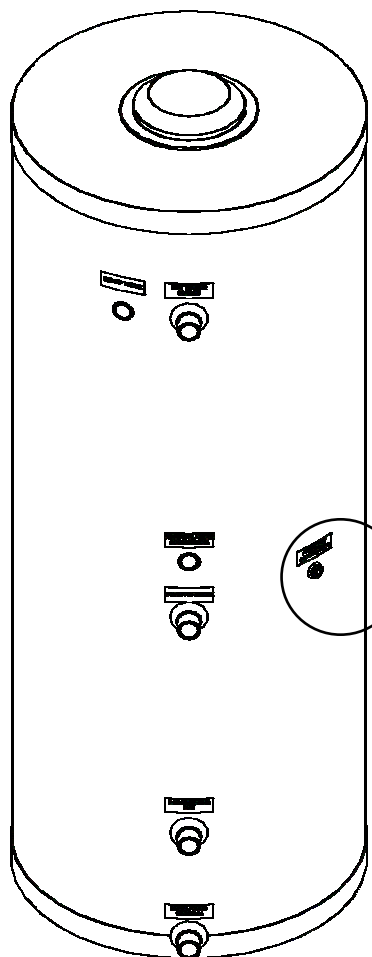
It is the installer's responsibility to ensure the Tank Sensor is installed in accordance with these instructions and that the Tank and Boiler are installed in accordance with their respective installation instructions. Contact NTI if assistance is required.

**NTI-Trinity Ti and Ts series boilers are not designed to accept the Tank Sensor reading, therefore a separate controller (e.g. tank thermostat or aquastat) must be used.*

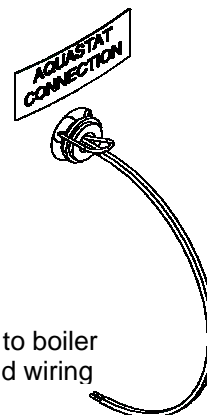
Installation Instructions

1 Locate Thermal Well (Aquastat Connection).

2 Insert Tank Sensor.



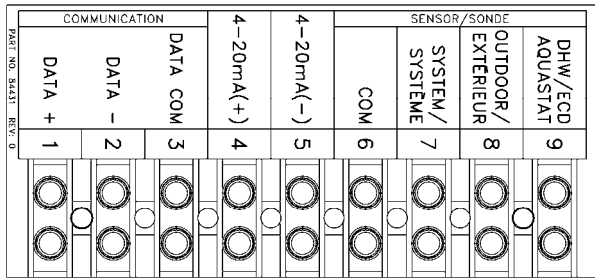
3 Hook wire retainer to the back of the Thermal-Well rib – pull to ensure it will not fall-out.



Connect to boiler using field wiring

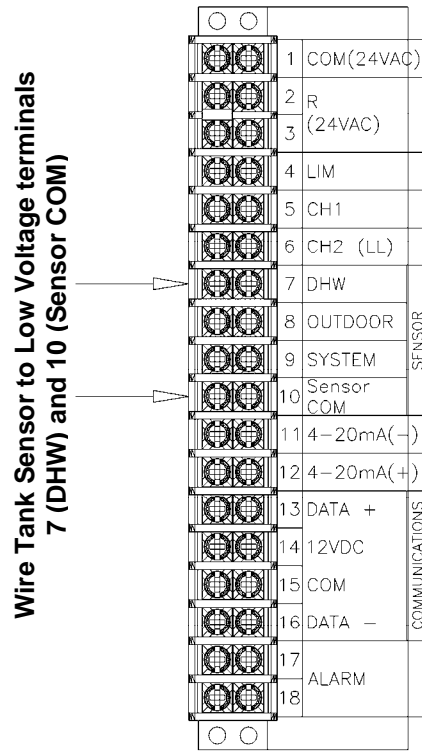
Wiring

Tank Sensor to Tft-series Boiler



Wire Tank Sensor to terminals 6 (COM) and 9 (DHW AQUASTAT).

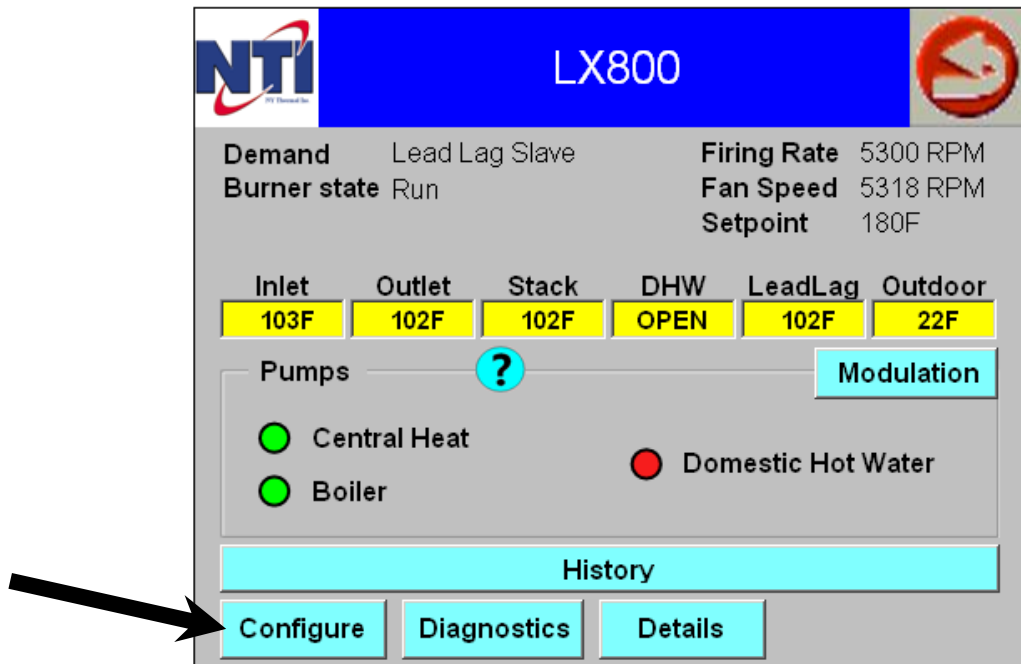
Tank Sensor to Lx-series Boiler



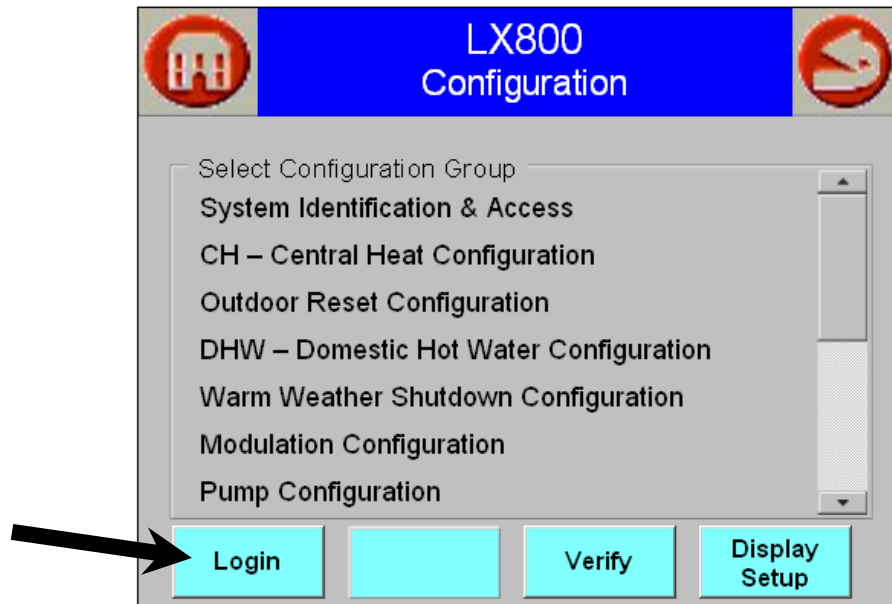
Wire Tank Sensor to Low Voltage terminals 7 (DHW) and 10 (Sensor COM)

Boiler Control Adjustments

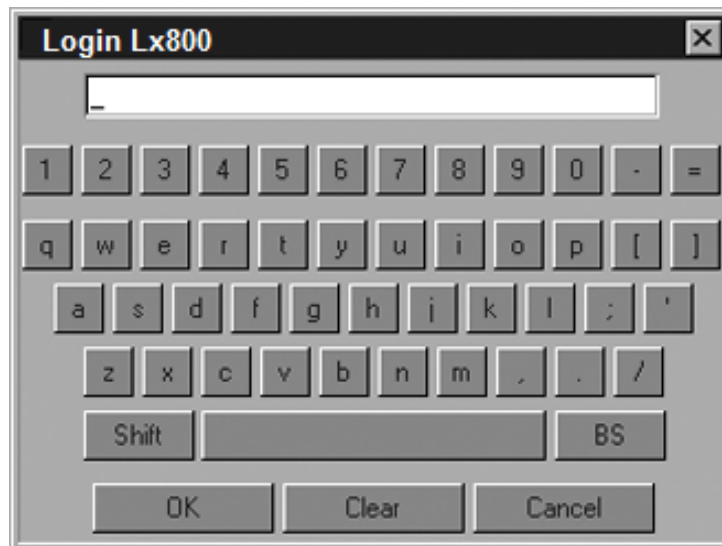
- 1 Select Configure from the Summary screen.



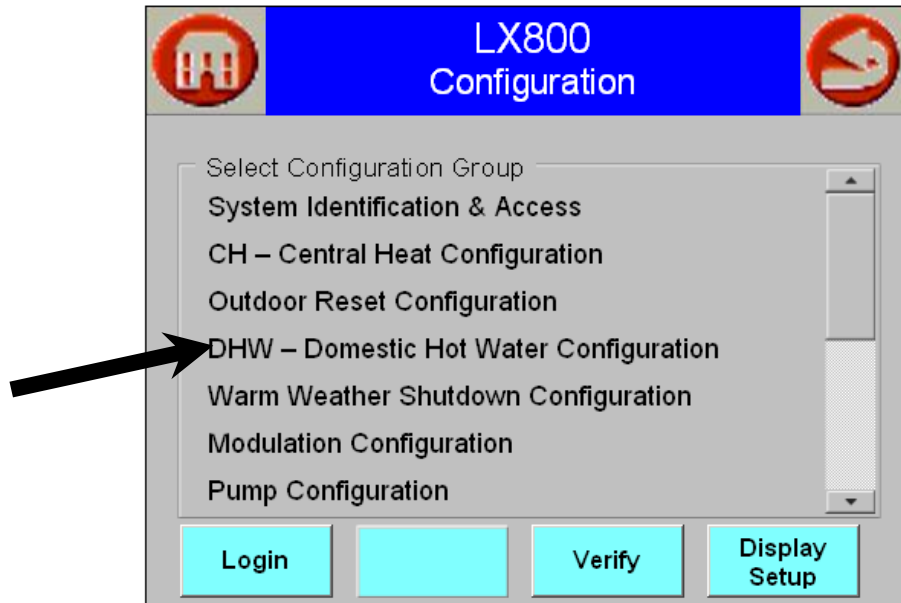
2 Select Login from the Configuration menu.



3 Login by typing “sola” using the keypad, then select OK.



4 Select DHW – Domestic Hot Water Configuration from the Configuration menu.



5 Adjust the DHW Configuration settings to attain proper operation with the Tank Sensor.

Adjust Demand switch to “(Modulation) sensor only”

Adjust Modulation sensor to “DHW sensor”

Adjust Setpoint to the desired DHW storage temperature, i.e. 130F.

For more information on adjusting the boiler control settings, refer to:
APPENDIX A – CONTROLLER AND TOUCHSCREEN DISPLAY INSTRUCTIONS FOR TRINITY Tft & Lx SERIES included with the boiler.