Our customer supplies hot water from a heat exchanger to other users and charges them for kilowatt hours (kW·h) used. The customer supplied calculation to compile the Smart App was:

The difference between water temperature out and water temperature returned x a factor x flow in liters per second.

For flow rate in liters/min

- -> kW Flowrate (1/m) / 60 x dT (C) x 4.190
- -> kW Flowrate (1/m) / x dT (C) x 0.06983333

This application uses a Tiger 320 Series DI-60AT controller with an ITTE RTD/Frequency/RTD input module installed and Texmate's Boiler Energy Calculation Smart App, Version 1.3, running.



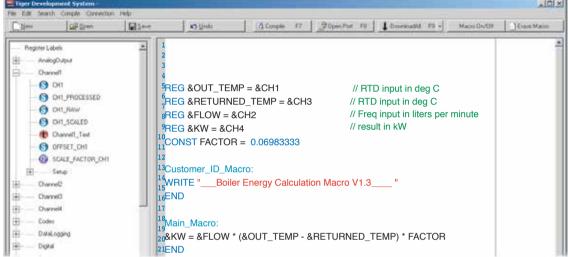


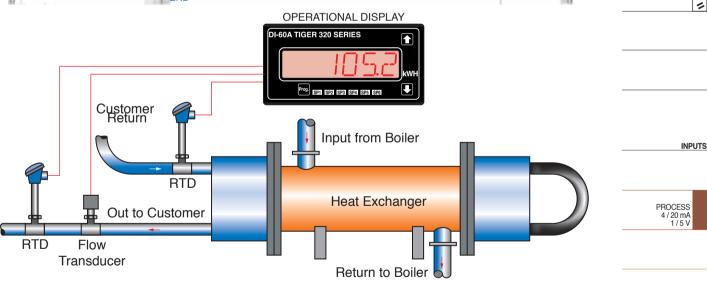
SMART APP

**TOTALIZERS** 

CALCULATIONS

## **BOILER ENERGY CALCULATION MACRO**





## **APPLICATION VARIATIONS**

- · View kW.
- · View flow rate.
- Use a Tiger 320 Series DI-503 and view three parameters simultaneously.

Suggested Ordering Code Options for This Application

Basic Order Codes	Comments
DI-60AT-DR-PS1-ITTE	Triple RTD/RTD/Frequency input. Calculate kW/H by Smart App
Note: Custom Smart App required. Charges vary depending on application. Contact Texmate.	

TEMPERATURE DUAL RTD