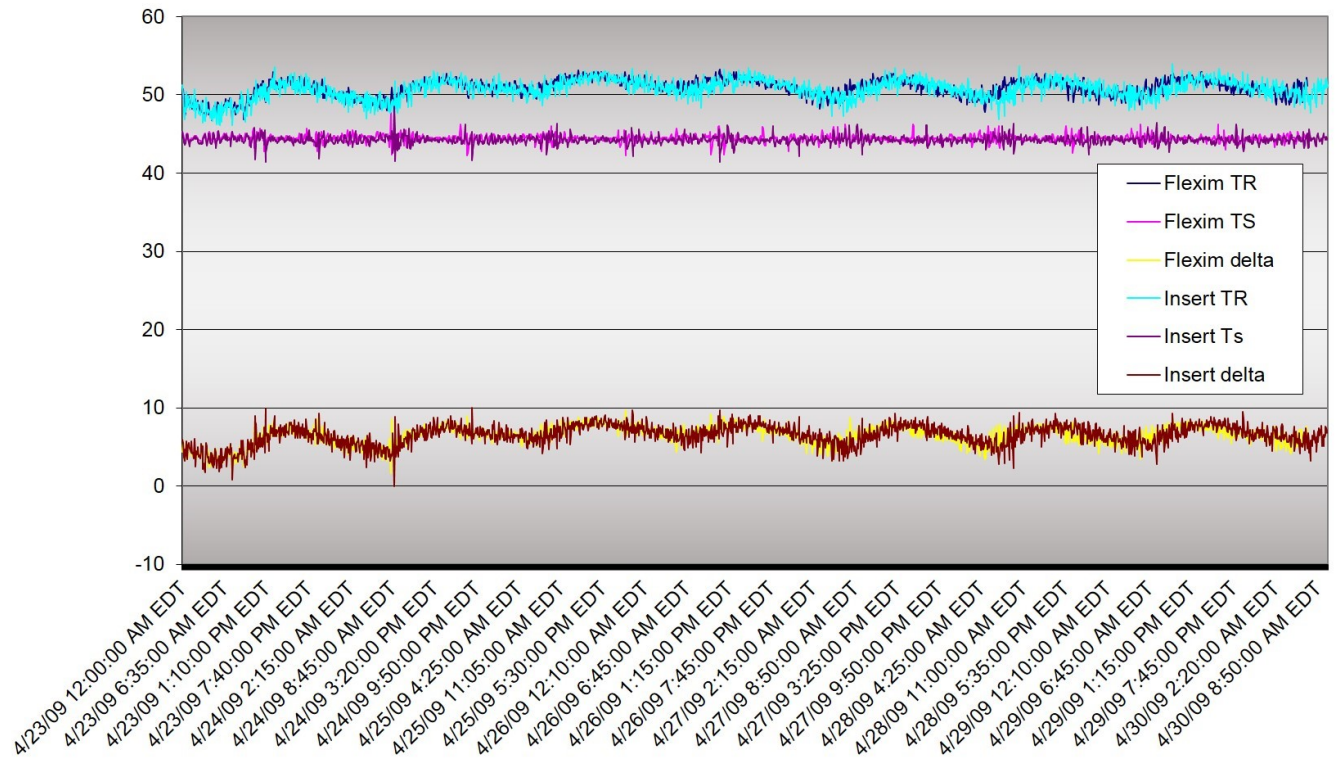


## Clamp-on Temperature VS Insertion Temperature Sensors Accuracy Study

Comparison of Paired Temperature Sensors: Clamp-on vs. Insert



### Study:

- In a laboratory controlled environment, our Flexim clamp-on temperature sensors are put in comparison with insertion temperature sensors manufactured by one of the most renowned world brands.
- The objective is to test how well the temperatures match on supply, return and as a delta T to establish how accurate it is to use clamp-on metering for measuring total energy.

### Results

- The sensors match and follow each other extremely well with almost negligible variance as the plot above shows.
- Although the sensors are clamped on the outside of the pipe, they are able to accurately match the temperature changes. The delta T measurement is matching with insertion type sensors as shown in the graph thus achieving an accurate total energy measurement without the hassle of an inline type installation.