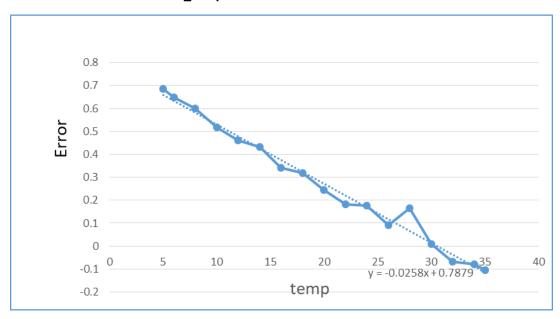
TDS- Offset Calculation

The offset value for individual temperatures has been determined based on the error rate versus temperature graph.

Offset value = -0.0258 * Raw_temperature + 0.7879.



Calculating Temperature:

Temperature = Raw_temperature - Offset value
= Raw_temperature - (-0.0258 * Raw_temperature + 0.7879)

Examples:

Raw_temperature = 1:

Temperature = 1 - (-0.0258 * 1 + 0.7879)

= 1 - (-0.0258 + 0.7879)

= 1 - 0.7621

= 0.2379

Raw_temperature = 3.3:

Temperature = 3.3 - (-0.0258 * 3.3 + 0.7879)

= 3.3 - (-0.08514 + 0.7879)

= 3.3 - 0.70276

Raw_temperature = 7.5:

Temperature = 7.5 - (-0.0258 * 7.5 + 0.7879)

- = 7.5 (-0.1935 + 0.7879)
- = 7.5 0.5944
- = 6.9056

Raw_temperature = 13.9:

Temperature = 13.9 - (-0.0258 * 13.9 + 0.7879)

- = 13.9 (-0.35802 + 0.7879)
- = 13.9 0.42912
- = 13.47088

Raw_temperature = 18:

Temperature = 18 - (-0.0258 * 18 + 0.7879)

- = 18 (-0.4644 + 0.7879)
- = 18 0.3235
- = 17.6765

Raw_temperature = 23.5:

Temperature = 23.5 - (-0.0258 * 23.5 + 0.7879)

- = 23.5 (-0.6063 + 0.7879)
- = 23.5 0.1816
- = 23.3184

Raw_temperature = 33:

Temperature = 33 - (-0.0258 * 33 + 0.7879)

- = 33 (-0.8514 + 0.7879)
- = 33 0.0635
- = 32.9365

Raw_temperature = 40:

Temperature = 40 - (-0.0258 * 40 + 0.7879)