Simulation of a K-type thermocouple

To simulate a K-type thermocouple you should do the following:

1. Open the Matlab software.

2. Type fx>>>simulinks, the software will display a new page with lots of options,select a Blank Model.

3. Then select libraries on the Blank Model and on the libraries select sensor.

4. On the list of sensors select a thermocouple

5. Chose the thermocouple type (in this case type k)

6. The Matlab software will need a reference table,some polynomials and thermocouple coefficients(all are in the subsequent pages) to simulate the instrument .

7. Connect the instrument as shown below.