UML Class Diagram

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KelvinTempSensor

- currentReading: int
- increasing: boolean
- rand: Random

+ reading(): int

<<interface>>
KelvinTempSensor

- MINREADING: int
- MAXREADING: int
- DEFAULT: int

+ reading(): int

<<interface>>
IBarometer

- MIN: double
- MAX: double
- DEFAULT: double

+ pressure(): double

<<KelvinTempSensor extender>>
KelvinTempSensorAdapter

Observable, Runnable

WeatherStation

- sensor: KelvinTempSensor
- barometer: Barometer
- PERIOD: long
- KTOC: int
- currentReading: int
- currentPressure: double

+ run()
+ getCelsius(): double
+ getKelvin(): double
+ getFahrenheit(): double
+ getInches(): double
+ getMilibars(): double

Barometer

- currentPressure: double
- increasing: boolean
- rand: Random

+ pressure(): double

Observer

TextUI

- station: WeatherStation

+ update(Observable, Object)

Thread

- station: WeatherStation

+ update(Observable, Object)

Observer

SwingUI

- celsiusField: JLabel
- kelvinField: JLabel
- fahrenheitField: JLabel
- inchesField: JLabel
- millibarField: JLabel
- station: WeatherStation
- labelFont: Font

+ setCelsiusJLabel(double)
+ setKelvinJLabel(double)
+ setFahrenheitJLabel(double)
+ setInchesJLabel(double)
+ setMillibarsJLabel(double)
+ createLabel(String, JPanel): JLabel
+ update(Observable, Object)