COMP 4100 Tensile-Testing Software Voltage Conversion

Article containing a formula to converting voltage to units:

Article- <https://www.omega.com/en-us/resources/data-acquisition-converting-current-and-voltage-to-engineering-units>

Notes

* Article gives the formula Y=MX+B for converting voltage to engineering units
* “Where Y is the output or ENGINEERING UNITS Where M is the slope or the SCALE FACTOR Where X is the INPUT (millivolts, volts, etc) and Where B is the OFFSET”
* Need to know what type of voltage reading the machine is outputting (volts or millivolts) to make use of this formula. Different voltage types result in different x values
* Need to know the offset to the machine’s output as this will affect the B value.
* Article provides a demonstration of the formula which converts voltage to PSI.