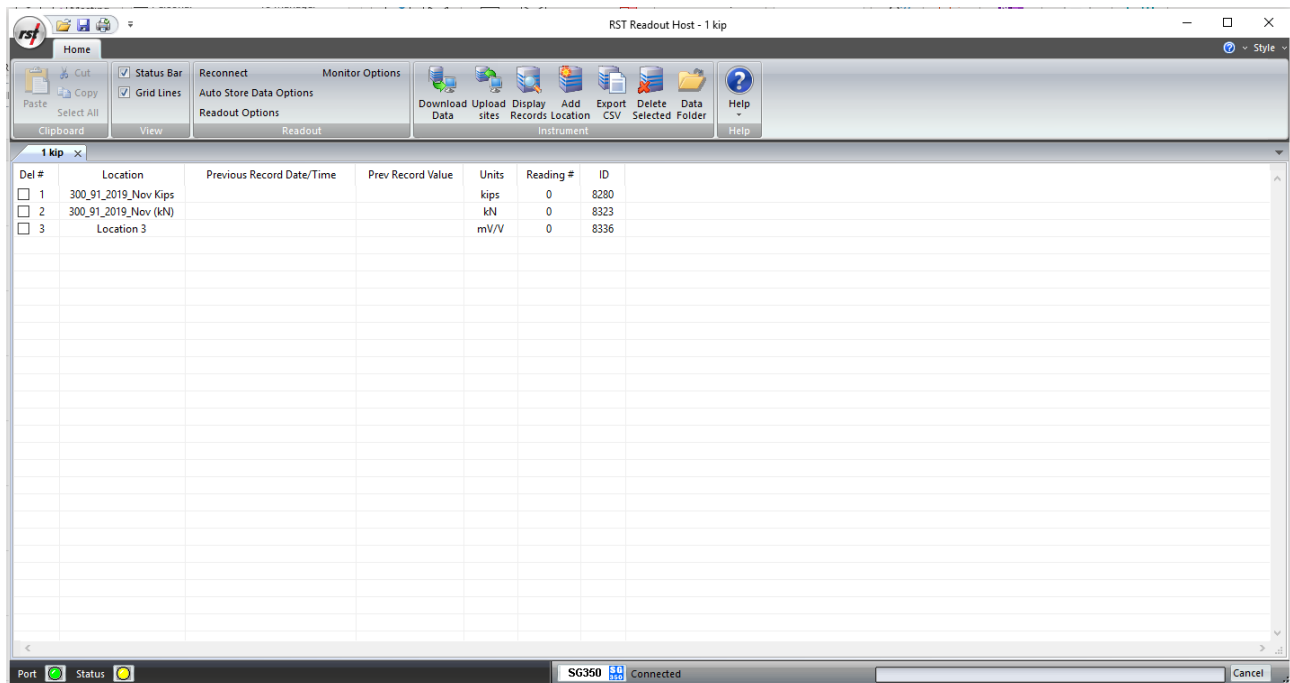


## SG350 Readout Setup with a Strain Gauge Load Cell

- 1) Connect the SG350 Readout vis the USB Cable and start RST Logger Host.



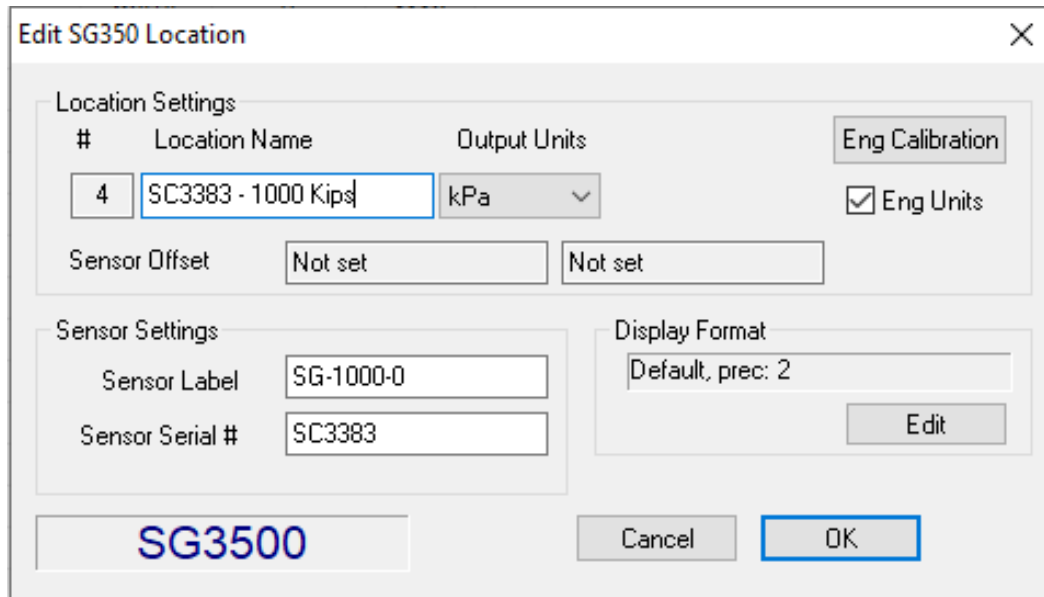
- 2) Right click to create a New Location (or right click an existing address to edit). The Edit SG350 Location Screen will appear.

The screenshot shows the 'Edit SG350 Location' dialog box. It contains the following fields and controls:

- Location Settings:**
  - #: 4
  - Location Name: Location 4
  - Output Units: mV/V (dropdown menu)
  - Eng Calibration: ☐ Eng Units
- Sensor Offset:** Not set
- Sensor Settings:**
  - Sensor Label: Sensor Label
  - Sensor Serial #: 0000000000000000
- Display Format:** Default, prec: 2
- Buttons:** Cancel, OK

## SG350 Readout Setup with a Strain Gauge Load Cell

- 3) Change the Location Name and Sensor Settings. Check the Eng Units Box and click Eng Calibration, then click OK.



The 'Edit SG350 Location' dialog box contains the following fields and controls:

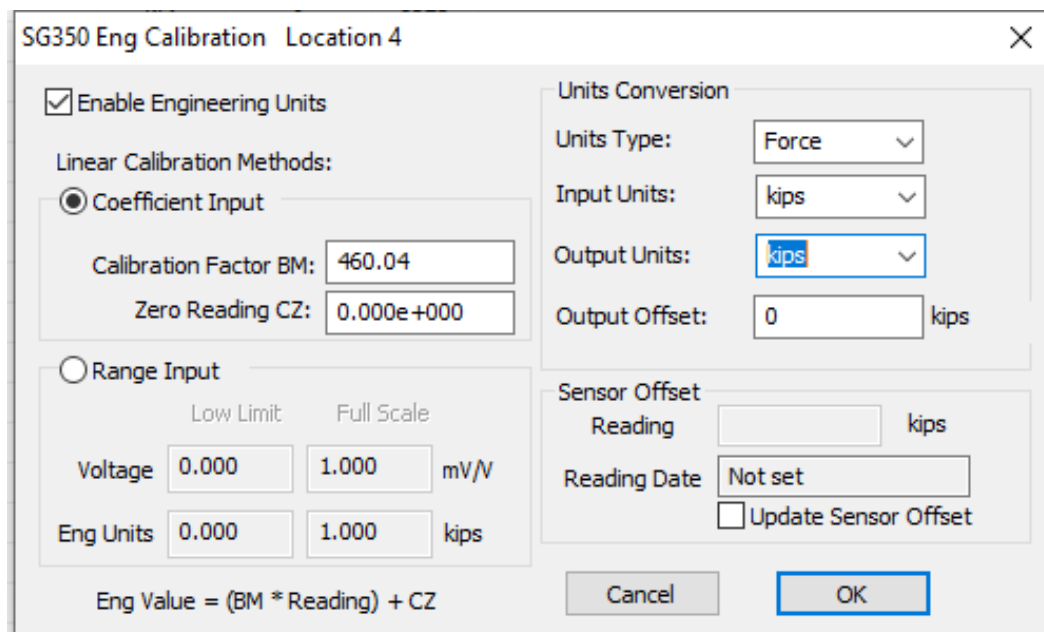
- Location Settings:**
  - #: 4
  - Location Name: SC3383 - 1000 Kips
  - Output Units: kPa
  - Eng Calibration: Button
  - Eng Units: ☒
  - Sensor Offset: Not set
- Sensor Settings:**
  - Sensor Label: SG-1000-0
  - Sensor Serial #: SC3383
- Display Format:** Default, prec: 2 (with an Edit button)
- Buttons:** Cancel, OK
- Label:** SG3500

- 4) Select Linear Calibration Methods and Coefficient Input. Enter the Output Value from the calibration record in Calibration Factor BM.

1000.0	1.859	1.859	1.859	1.859	2.173
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Output: 460.04 Kips/mV/V

- 5) Change the Units Conversion to Force, Input: Kips and Output: Your preferred units (Kips is our standard). Click OK to go back to Edit SG350 Location.

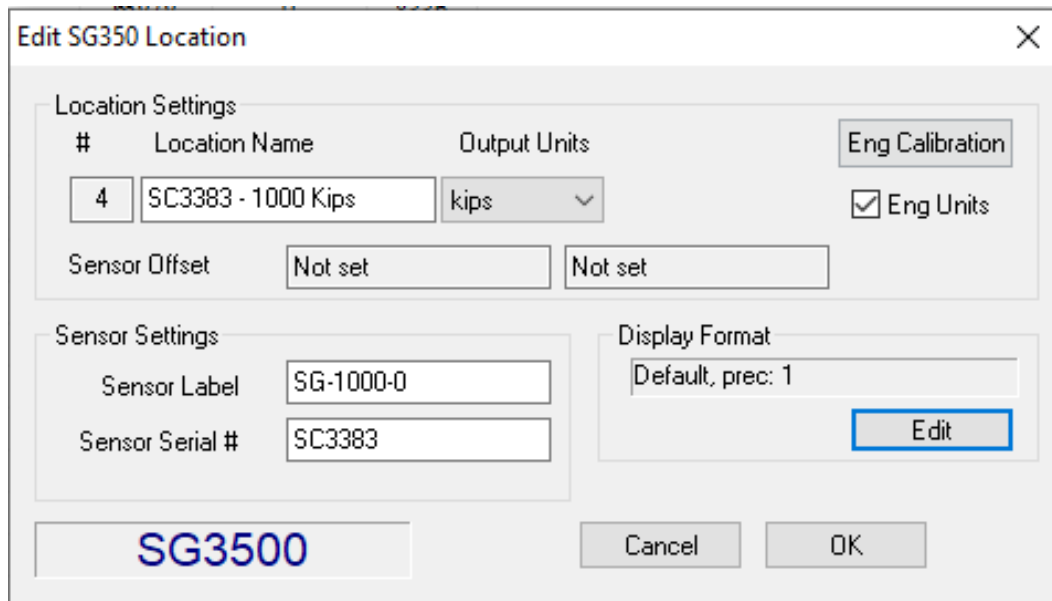


The 'SG350 Eng Calibration Location 4' dialog box contains the following fields and controls:

- Enable Engineering Units:** ☒
- Linear Calibration Methods:**
  - ☒ Coefficient Input
    - Calibration Factor BM: 460.04
    - Zero Reading CZ: 0.000e+000
  - ☐ Range Input
    - Low Limit: 0.000
    - Full Scale: 1.000
    - Eng Units: 0.000
- Units Conversion:**
  - Units Type: Force
  - Input Units: kips
  - Output Units: kips
  - Output Offset: 0 kips
- Sensor Offset:**
  - Reading:
  - Reading Date: Not set
  - ☐ Update Sensor Offset
- Equation:** Eng Value = (BM \* Reading) + CZ
- Buttons:** Cancel, OK

## SG350 Readout Setup with a Strain Gauge Load Cell

- 6) Choose the preferred Display Format for decimal places or scientific notation. Click OK to save the location in the Readout Host Software. It still has to be loaded to the Readout.



**Edit SG350 Location**

**Location Settings**

#	Location Name	Output Units
4	SC3383 - 1000 Kips	kips

Sensor Offset: Not set

☐ Eng Calibration

☒ Eng Units

**Sensor Settings**

Sensor Label: SG-1000-0

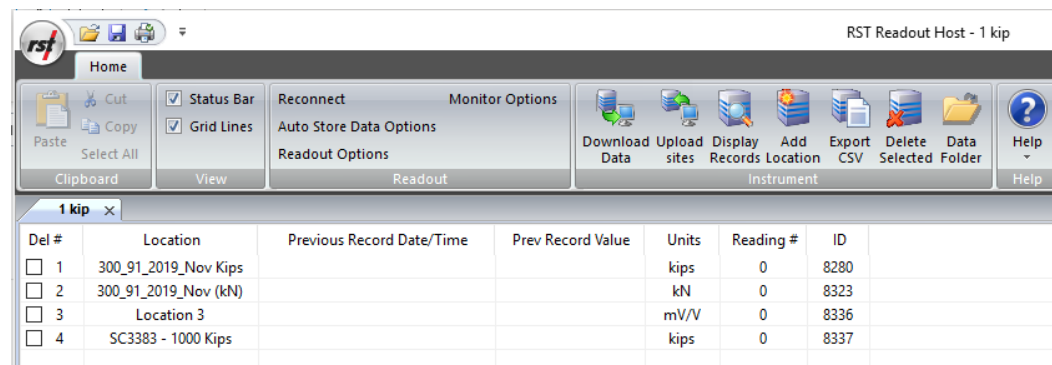
Sensor Serial #: SC3383

**Display Format**

Default, prec: 1

**Buttons:** Cancel, OK, Edit, SG3500

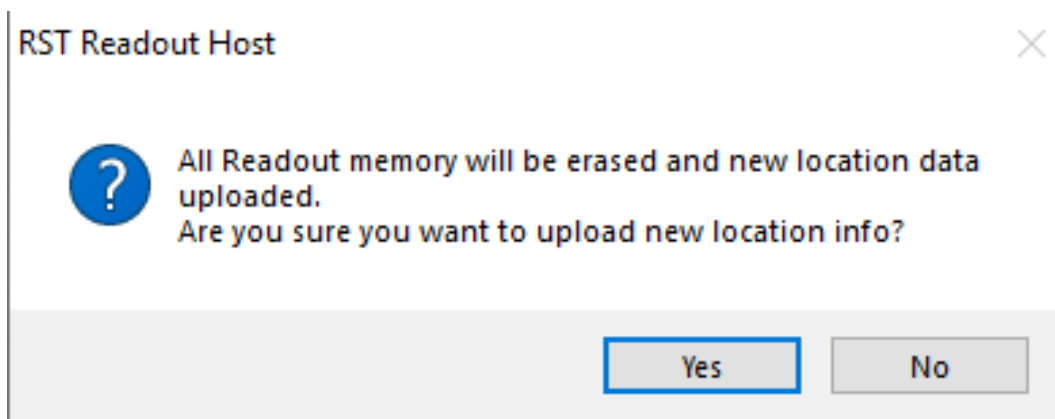
- 7) Click 'Upload Sites' to send the location to the SG350 Readout.



RST Readout Host - 1 kip

Del #	Location	Previous Record Date/Time	Prev Record Value	Units	Reading #	ID
<input type="checkbox"/> 1	300_91_2019_Nov Kips			kips	0	8280
<input type="checkbox"/> 2	300_91_2019_Nov (kN)			kN	0	8323
<input type="checkbox"/> 3	Location 3			mV/V	0	8336
<input type="checkbox"/> 4	SC3383 - 1000 Kips			kips	0	8337

- 8) The warning will appear below, click Yes.



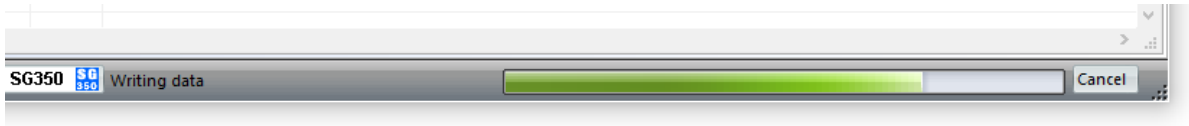
**RST Readout Host**

**Warning:** All Readout memory will be erased and new location data uploaded. Are you sure you want to upload new location info?

**Buttons:** Yes, No

## SG350 Readout Setup with a Strain Gauge Load Cell

- 9) The screen will grey out and the progress bar will display the upload progress. Do Not unplug the cable until the screen grey out disappears and the status 'Connected' reappears.



- 10) Disconnect the USB cable from the computer and scroll down with the arrow key until Monitor appears. Press Enter.



- 11) Select Import From Site.



## SG350 Readout Setup with a Strain Gauge Load Cell

12) Use the arrow key to scroll down and select the appropriate location and press Enter.



13) Connect the load cell to the 6 Pin connector.



## SG350 Readout Setup with a Strain Gauge Load Cell

- 14) The Offset value will appear on the screen. Press the Enter and ESC keys at the same time to zero the readout



- 15) The load cell is now zeroed and ready for use. This can be used to reset the readout each time it is used by pressing the keys twice to toggle between offset and zero.

