Setting up the AURORA AX-582BL calculator

The calculator operates in a number of modes, some of which include display of numbers as fractions rather than as decimals, and the use of degrees or radians to display angles.

1. To change a fraction to a decimal, press a^b/c
2. To ensure angles are expressed and entered in degrees, press MODE, MODE, 1

Using the AURORA AX-582BL calculator to calculate simple arithmetical expressions

The calculator allows for entry of numbers and expressions using standard algebraic format. This includes the use of brackets, exponents and functions. The expression is evaluated when the Equals key is pressed using conventional arithmetical priorities. As an example:

56x(10-8)-10^(2) evaluates to 12
15xsin(45)÷√(2) evaluates to 7.5

Single line expressions such as those above can be edited using the arrow keys, the Del key, other keys as necessary, and then re-evaluated by pressing the Equals key. Pressing the CA key will clear the current expression.

Using the AURORA AX-582BL calculator to calculate the mean and sample standard deviation for a list of numbers

1. Press Mode, 2 to enter the SD mode for standard deviation based calculations.
2. Press SHIFT, CLR, 1, = to clear the statistics memory.
3. Enter the first value from your list and press the M+ key.
4. Repeat for the second value. The display will show the number of data points you have entered so far.
5. Repeat until all values have been entered. Check you have entered the correct number of data points before you start your analysis.
6. If you enter a value incorrectly press the UP/DOWN arrow keys to go back to that value and re-enter the correct value. Press = to submit.
7. You can extract two calculated statistical results from your data as follows:
   To retrieve the ***mean***, press SHIFT, 2, 1, =
   To retrieve the ***sample standard deviation***, press SHIFT, 2, 3, =
8. Do not forget to press the Equals key, otherwise the display shows the last item entered.
9. At the end of your session please press SHIFT, CLR, 1, = to reset the calculator for the next user. This will clear all the statistical data entered.