

Correction Factor and RATA adjustments:

In some cases there will be a consistent difference (high or low) between the values reported by the OFS unit and independent data references - either calculated or reported by other sensors. In such a case, the OFS baseline can be aligned to match the reference data. This is done by using the front panel keypad to enter a correction factor.

In the typical case, a stack testing crew will use a pitot tube to determine the flow in the stack or duct during a RATA (Relative Accuracy Test Audit). They do this by averaging a number of pitot measurements taken in a number of different parts of the cross section of the stack/duct and averaging those readings together to get a number which represents the average flow for the total period it took for them to do their data collection. You will need access to the output of the OFS meter being audited and you will need to calculate an average of the OFS meter's output over the same time period that the RATA testing crew used to collect their data. You will end up with two numbers. One average velocity number from the RATA team and one average velocity number from the OFS meter. The RATA number we will call the "Reference".

Determine the correction factor (offset) required.

This is done by dividing the reference flow number by the OFS flow number:

Example: Reference flow = 20 m/s

OFS reported flow = 18.5 m/s

$20/18.5 = 1.08$

1.08 is therefore the Correction Factor Required in this example

[You can double check by multiplying the correction factor by the original OFS reading eg: $1.08 \times 18.5 = 19.98$]

Inputting the Correction Factor into the OFS2000 Meter:

At the control panel press and hold the SET key to enter the setup menu.

Press the NEXT key to step thru the menu selections until you come to "Correction Factor."

Press the UP (+) or DOWN (-) keys to select percentage in 1% increments until the correction factor you need is displayed.

Press the SET key to save and exit the setup menu.

As soon as you press SET the correction value is applied to the display output and the 4-20mA output.