Accuracy Check: Alco-Sensor FST

Using a .038 Alcohol Gas Tank and 1.5 liter-per-minute regulator.


Step 1: Attach Regulator

Follow instructions on the Alcohol Gas Tank to attach the regulator.


Step 2: Purge Regulator by

pressing button/valve on regulator for approx. 8-10 seconds before running your first accuracy check of the day.

Step 3: Determine Gas Value by reviewing the elevation chart on the tank to calculate the alcohol concentration for the 0.038 tank at your elevation. The value can also be determined more easily by utilizing a True-Cal device.

Step 4: Attach mouthpiece

Securely attach disposable FST mouthpiece to FST instrument.

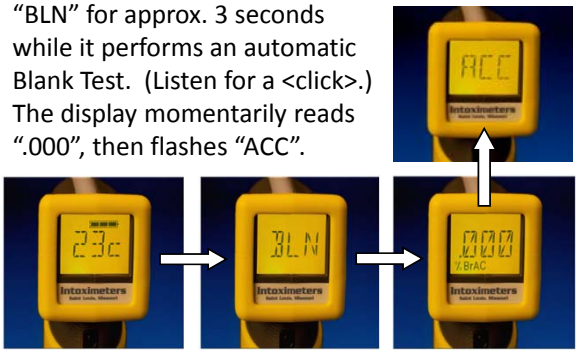
Step 5: Access Maintenance Menu

Turn on FST by holding down **OFF** button (under thumb) and **ON** button (under index/trigger finger) for a few seconds until screen displays “RCL”.


Step 6: Put FST in Accuracy Check mode by pressing the **ON** button (trigger finger) repeatedly until "ACC" is displayed on the screen. Press the **OFF** button (thumb) once to select this mode.

Step 7: Observe Air Blank

The FST displays the temp., then "BLN" for approx. 3 seconds while it performs an automatic Blank Test. (Listen for a <click>.) The display momentarily reads ".000", then flashes "ACC".

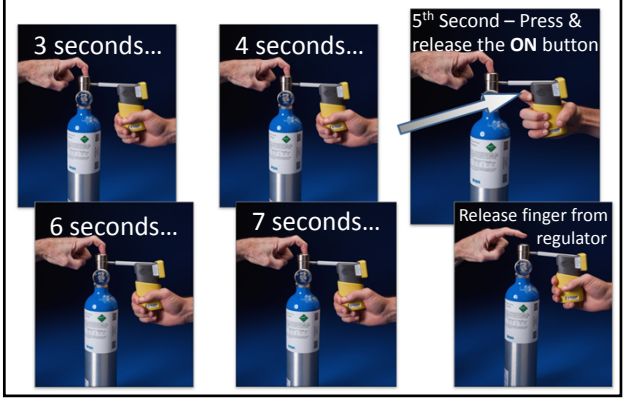


Step 8: Attach FST to regulator by attaching the FST mouthpiece to the tube on the tank regulator.

Step 9: Perform Accuracy Check

Press the regulator button for 7 seconds. During the 5th second, press & release the FST's **ON** button (trigger finger) to take the gas sample.

Step 9 cont'd: Perform Accuracy Check



Step 9 cont'd: Additional Notes on Gas Flow

NOTE 1: Gas must be flowing through the mouthpiece during the entire 7-second process, therefore, continue pressing the tank regulator button for another 2 seconds AFTER you press & release the **ON** button during the 5th second.

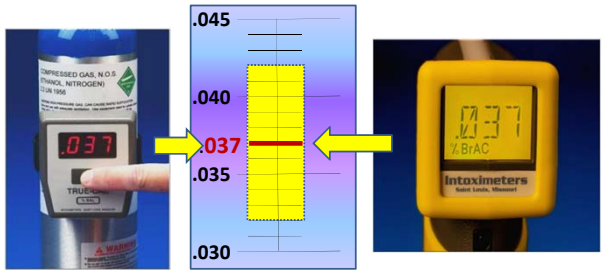
NOTE 2: <u>If using a 6 liter-per minute regulator</u>, the gas flow will be strong enough to trigger the FST's automatic sampling mechanism, thereby eliminating the need for the Operator to press & release the **ON** button during the 5th second.

Step 10: Observe Reading and Interpret Results

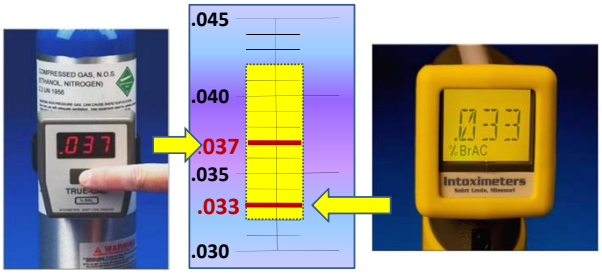
Results within +/- .005 of the elevation-adjusted value of the Alcohol Gas Tank are acceptable. The FST is reading accurately.

(see next 3 slides for acceptable readings)

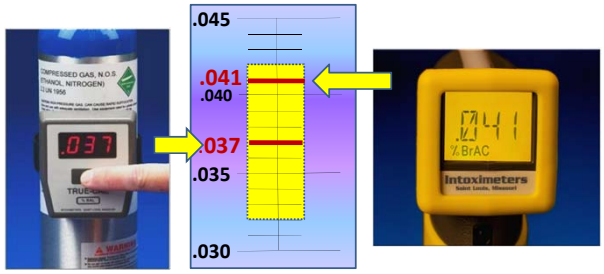
Acceptable Tolerance



Acceptable Tolerance



Acceptable Tolerance

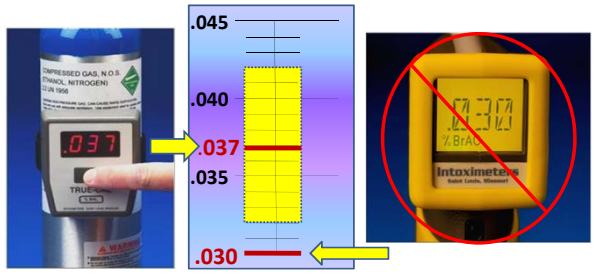


Step 10 cont'd: Observe Reading and Interpret Results

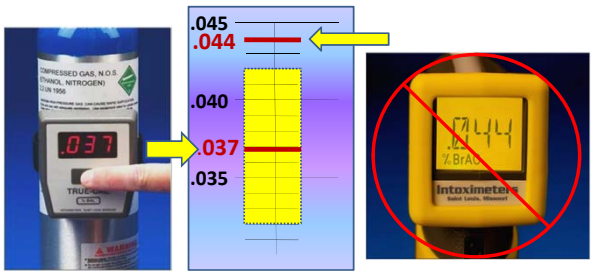
Results that are **NOT** within +/- .005 of the elevation-adjusted value are out of acceptable tolerance and the Operator must perform a Calibration Adjustment.

(see next 2 slides for unacceptable readings)

NOT Acceptable !!



NOT Acceptable !!



Step 11: Record Results

Record every Accuracy Check result in a Calibration Log to document the accuracy of the Alco-Sensor.

NOTE:

Results that are **NOT** within +/- .005 of the elevation-adjusted value are out of acceptable tolerance and the Operator must perform a Calibration Adjustment.

For technical assistance and to order calibration supplies:

AlcoPro, Inc.

800 227-9890

www.alcopro.com