

## **MSA FiveStar Instrument Calibration Procedures**

1. Ensure that the TIMS is turned on and functioning properly.
2. Turn on instrument and allow to fully warm up.
3. Insert instrument into the TIMS holster assembly. Slide the instrument in order to connect the pump inlet with the gas supply line. The TIMS will check for a good fit. An error will occur if the fit is not adequate.
4. Verify that the TIMS has connected to the instrument. The TIMS display will show the instruments serial number and model number.
5. Press RUN to calibrate.
6. A yellow light will indicate that the TIMS is calibrating the instrument.
7. Green light indicates that the instrument has passed. Red light indicates that the instrument has failed. If an instrument fails, please contact your ES&H representative to alert them of the situation. The instrument may be re-calibrated or a new instrument may be calibrated.

If the TIMS system is non-functional (the server is down, a power outage or the network connection has been lost, etc.):

1. Locate an instrument that has been calibrated within the past 30 days. This can be done by searching the records of recent entries. The manufacturer recommends calibration monthly. Since a bump test using the TIMS system takes the same amount of time and materials as a calibration, the Laboratory has decided to calibrate each and every time.
2. Record the last known calibration date on the Reclassification or Permitted Form.
3. Turn on instrument and allow to fully warm up.
4. Perform Fresh Air Setup when prompted by the instrument in an appropriate environment.
5. Proceed to make confined space entry.
6. Notify division/section ES&H personnel of the system status as soon as possible.
7. Calibrate the instrument when the system becomes available.

Another alternative if the TIMS system is down because a local server is down (FESSERVER, BDSERVER) is to take the instrument to another location and calibrate there.

If it is not possible to locate an instrument calibrated within the past 30 days, arrange to borrow an instrument from an organization that regularly calibrates instruments (FESS or ESH FD)