



TPI Analyzers: CO Error at Start-up

TPI analyzers perform a self-test at start-up during the initial 30 second purge cycle. While this test is being performed the analyzer is setting the carbon monoxide sensor to 0ppm and the oxygen sensor to 20.9% (if equipped with an O2 sensor).

It is important to start the analyzer with **no** hoses attached in a “**clean air**” environment outside the test area. The hoses can trap CO in them for days causing the analyzer to be subjected to CO upon start-up and a CO error to be displayed after the initial purge cycle. In addition, if the analyzer is started in an area containing CO the sensor will be unable to zero and a CO error will be displayed after the initial purge.

Note: CO sources that can cause errors at start up include but are not limited to: Open fires, Cigarette smoke, Holes in flue pipes, etc.

If the analyzer does display CO error after start-up, try the following steps:

Note: Depending on the age of the analyzer this feature may or may not be available

1. With the analyzer running and displaying CO error, press and hold down the FUNCTION and DOWN ARROW keys for 5 to 7 seconds until the analyzer beeps and the error screen is no longer displayed.
2. Check the CO level to see if there is a reading in ppm. If the analyzer is reading CO then the sensor is measuring CO at start up.
3. Move the analyzer to a clean environment and allow it to purge to 0ppm.
4. Once the analyzer has purged it is ready for use.

If the analyzer firmware does not support the above steps, take the analyzer into “clean air” and let it run for at least 15 minutes (a longer run time will be required if the analyzer was subjected to a large amount of CO). Turn the analyzer off and then restart it and the CO error should be cleared.

If the analyzer fails after following the steps above please send it to TPI for service.