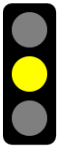








# MBW Error Messages

Error Message	Description	Operator Response	
Mean N <sub>2</sub> Insp. is out of valid range	Sustained re-inspired N <sub>2</sub> levels above the acceptable threshold of 0.3% (N <sub>2</sub> tracing not returning to zero on inspiration) indicates a small constant leak, typically at Nafion tube connection.	<ul style="list-style-type: none"> <li>➤ Check Nafion tube connections and integrity to rule out a possible leak.</li> <li>➤ Also ensure that mask or mouthpiece is fitted properly to minimize episode of leak.</li> <li>➤ Collect an additional trial.</li> <li>➤ If error message continues to appear, replace Nafion tube.</li> </ul>	
Flow during Insp. is too high	Appears when flow during inspiration exceeds the threshold of 1000 ml/s. The subject breathes beyond the bias flow and inspires N <sub>2</sub> from room air creating a leak in the circuit.	<ul style="list-style-type: none"> <li>➤ Inspect for leak: O<sub>2</sub> not maintained at 100% during inspiration.</li> <li>➤ If leak or if unsure collect an additional trial.</li> </ul>	
Sample Flow not in defined valid range	Sampling rate at the Nafion tube is too low or too high.	<ul style="list-style-type: none"> <li>➤ Please contact the manufacturer to ensure proper function of MBW device.</li> </ul>	
DSR-SET not attached properly? (TransitTimeError)	Appears when the software senses misalignment of the DSR/Spirette/Flowhead assembly. Misalignment of these components may compromise accuracy of flow and volume measurements and cause the trial to be rejected.	<ul style="list-style-type: none"> <li>➤ Check equipment set-up and connections.</li> <li>➤ Collect an additional trial.</li> </ul>	
LCI Target not reached - no valid results.	Often triggered by a software error has selected an incorrect breath as the last valid breath of washout (2.5% [N <sub>2</sub> ] target).	<ul style="list-style-type: none"> <li>➤ Verify there are three consecutive breaths where N<sub>2</sub> Cet norm is below 2.5%. If so, end of test criteria has been met.</li> <li>➤ The incorrect last valid breath can be changed manually by over-reading centre.</li> </ul>	
O <sub>2</sub> calibration not done	Appears when the channel calibration is not performed prior to testing, or the results were not saved.	<ul style="list-style-type: none"> <li>➤ Perform channel calibration.</li> <li>➤ Make sure to press 'save'.</li> </ul>	
St. Dev. CO <sub>2</sub> Cet is out of valid range	Indicates variable end-tidal CO <sub>2</sub> levels	<ul style="list-style-type: none"> <li>➤ Continue to distract/coach and encourage subject to breathe naturally.</li> </ul>	
CV% of LCI/FRC is too high.	Currently not rejecting or accepting trials based only on CV % of LCI or FRC. The software flags variable results. Generally, repeatable measurements are encouraging.	<ul style="list-style-type: none"> <li>➤ Typically, an extreme (&gt;1 unit) outlier indicates a leak or significant difference in breathing pattern between trials.</li> <li>➤ When error message appears, inspect existing trials and collect an additional trial if possible.</li> </ul>	