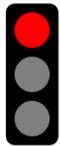


EcoMedics Exhalyzer D® MBW System Error Messages

Error Message	Description	Operator Response	
Mean N ₂ Insp. is out of valid range	Sustained re-inspired N ₂ levels above the acceptable threshold of 0.3% (N ₂ tracing not returning to zero on inspiration) indicates a small constant leak, typically at Nafion tube connection.	<ul style="list-style-type: none"> ➤ Check Nafion tube connections and integrity to rule out a possible leak. ➤ Also ensure that mask or mouthpiece is fitted properly to minimize episode of leak. ➤ Collect an additional trial. ➤ If error message continues to appear, replace Nafion tube. 	
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 ₂ from room air creating a leak in the circuit.	<ul style="list-style-type: none"> ➤ Inspect for leak: O₂ not maintained at 100% during inspiration. ➤ If leak or if unsure collect an additional trial. 	
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"> ➤ Please contact the manufacturer to ensure proper function of MBW device. 	
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"> ➤ Check equipment set-up and connections. ➤ Collect an additional trial. 	
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 ₂] target).	<ul style="list-style-type: none"> ➤ Verify there are three consecutive breaths where N₂ Cet norm is below 2.5%. If so, end of test criteria has been met. ➤ The incorrect last valid breath can be changed manually by over-reading centre. 	
O ₂ 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"> ➤ Perform channel calibration. ➤ Make sure to press 'save'. 	
St. Dev. CO ₂ Cet is out of valid range	Indicates variable end-tidal CO ₂ levels	<ul style="list-style-type: none"> ➤ Continue to distract/coach and encourage subject to breathe naturally. 	
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"> ➤ Typically, an extreme (>1 unit) outlier indicates a leak or significant difference in breathing pattern between trials. ➤ When error message appears, inspect existing trials and collect an additional trial if possible. 	