# Model O2 Troubleshooting Guide

| Problem | Possible Cause | Solution | Refer To |
|---|---|---|---|
| Incorrect $O_2$ value is displayed | Unit out of calibration. | Perform two point calibration. | Section 4.3 |
| Unit will not calibrate. | $O_2$ concentration of low cal gas too far from displayed $O_2$ value. | Perform high cal with 100% $O_2$ and retry low cal. | Section 4.3 |
| Calibration drifts from original setting. | Sensor not at operating temperature when 2 point cal was performed. | Verify gas temperature is at 45°C and recal. | Section 4.3 |
| Unstable $O_2$ value is displayed | Sample line filter not installed or filter is the wrong pore size. | Check that proper filter is installed. | Section 2.4.2 |
| Repeated Low $O_2$ Alarm | Alarm set point is higher than current measurement | Check $O_2$ source | Section 2.4.2 |
| Repeated High $O_2$ Alarm | Alarm set point is lower than current measurement | Check $O_2$ source | Section 2.4.2 |
| Repeated low flow alarm. | Blocked or pinched sample inlet line. | Change or repair inlet sample line. | Section 2.4.2 |
| | Sample line filter is clogged. | Change filter. | Section 4.2 |
| Pump does not operate. | Flow rate is set to 0 and/or pump is off. | Set desired flow rate and/or turn pump on. | Section 4.2 |
| $O_2$ measurement drift | Internal sample line leak possibly due to high over pressure. | Check for leaks by sampling 99.99 % O2 then occlude sample line. If leaking, reading will drift toward room air reading of 20.9%. Call service. | Section 2.4.2 & 8 |
| Water in Sample line | Sample line Nafion tubing saturated. changing | Replace sample line | |
| $O_2$ measurement drift | Internal scavenge outlet line leak | Display flow and occlude scavenge outlet port. Flow should drop to near zero. If not call service. | Section 2.4.2, 2.4.3 & 8 |
| Displayed $O_2$ value is zero or does not appear after 1 minute warm-up. | Laser diode output is not locked to oxygen line due to overheating or laser aging. | Power down and Restart Analyzer (after cooling if necessary). If restart is possible, then perform 2-point cal to reset laser control parameters. If these measures fail, contact Oxigraf service. | Section 4.3 |

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