7.3.2 Calibration Errors

7.3.2 Calibration Errors				
System Leak Test				
Error 6 – Pressure Drop	Excessive Pressure Drop During System Test	 Ensure closed patient system. Run system test with single tubing limb connect between outlet & exhalation cover. 		
		Remove system tubing and verify flow from PV1		
		4. Perform internal leakage test.		
		5. Replace Sensor PCB		
Error 7 – Pressure Rise	Excessive Pressure Increase During System Test	 Forward leak through PV1 valve. 		
		Forward leak through Solenoid 4 if nebulizer is connected.		
5 0 M T T		3. Replace Sensor PCB.		
Error 8 – Max Time To Pressure	Unable To Adequately Pressurize Patient System	 Ensure closed patient system. 		
riessuie	Tressurize Falletii System	Run system test with single tubing limb connect between outlet & exhalation cover.		
		Remove system tubing and verify flow from PV1		
		4. Perform internal leakage test.		
E 10 D : I		5. Replace Sensor PCB		
Error 10 – Deviation High	Flow At Transducer dP2 Out Of Range	 Verify internal flow sensor calibration, recalibrate as necessary. 		
Error 11 – Error Emptying Tank	Tank Pressure Remains Above 100mbar	 Ensure that patient wye is open at the beginning of system test. Verify that PV1 is opening and flow is evident from to patient port. 		
		3. Replace Inspiratory Valve PV1		
		 Verify no leakage through blender system. 		
Flow Sensor Calibration				
Error 12 – High Pressure	Pressure Out Of Range	Ensure that the proximal sensor is connected to the tubing system and that its outlet is open.		
		2. Replace proximal sensor		
		Verify internal flow sensor calibration, recalibrate as necessary.		
		4. Verify PV1 calibration, recalibrate as necessary.		
Error 13 – Deviation High	Zero Adjustment dP2	Perform re-zero of pressure transducers, fab test 5		
- 11 5 t ::	7 11 1 150	2. Replace Sensor PCB.		
Error 14 – Deviation High	Zero Adjustment dP3	Perform re-zero of pressure transducers, fab test 5		
Funer 4F Decident	Zana Adinatas and DO	2. Replace Sensor PCB.		
Error 15 – Deviation High	Zero Adjustment P3	Perform re-zero of pressure transducers, fab test 5		
		2. Replace Sensor PCB.		

Error 16 - High	- Deviation	Differential pressure too low @ 30 lpm	Ensure that system is leak free by running system test.
			2. Ensure that the proximal sensor is correctly connected to the tubing system and that its outlet is open.
			3. Replace proximal sensor
			4. Perform re-zero of pressure transducers, fab test 5
			5. Verify internal flow sensor calibration, recalibrate as necessary.6. Replace Sensor PCB
Error 17 - High	- Deviation	Differential pressure between Adult / Infant limits @ 30 lpm	Ensure that system is leak free by running system test.
			2. Ensure that the proximal sensor is correctly connected to the tubing system and that its outlet is open.
			3. Replace proximal sensor
			4. Perform re-zero of pressure transducers, fab test 5
			5. Verify internal flow sensor calibration, recalibrate as necessary.6. Replace Sensor PCB
Error 18 – High	- Deviation	Differential pressure too high @ 30 lpm	Ensure that system is leak free by running system test.
			2. Ensure that the proximal sensor is correctly connected to the tubing system and that its outlet is open.
			3. Replace proximal sensor
			Perform re-zero of pressure transducers, fab test 5
			5. Verify internal flow sensor calibration, recalibrate as necessary.6. Replace Sensor PCB
Error 19 - High	- Deviation	Differential pressure too low @ low flow level	Ensure that system is leak free by running system test.
			2. Ensure that the proximal sensor is correctly connected to the tubing system and that its outlet is open.
			3. Replace proximal sensor
			Perform re-zero of pressure transducers, fab test 5
			5. Verify internal flow sensor calibration, recalibrate as necessary.6. Replace Sensor PCB

Error 20 – Deviation High	Differential pressure too high @ low flow level	Ensure that system is leak free by running system test.
		Ensure that the proximal sensor is correctly connected to the tubing system and that its outlet is open.
		3. Replace proximal sensor
		Perform re-zero of pressure transducers, fab test 5
		5. Verify internal flow sensor calibration, recalibrate as necessary.6. Replace Sensor PCB
Error 21 – Deviation High	Coefficient (a) too low	Ensure that system is leak free by running system test.
		Ensure that the proximal sensor is correctly connected to the tubing system and that its outlet is open.
		3. Replace proximal sensor
		Perform re-zero of pressure transducers, fab test 5
		5. Verify internal flow sensor calibration, recalibrate as necessary.6. Replace Sensor PCB
Error 22 – Deviation High	Coefficient (a) too high	Ensure that system is leak free by running system test.
		Ensure that the proximal sensor is correctly connected to the tubing system and that its outlet is open.
		3. Replace proximal sensor
		Perform re-zero of pressure transducers, fab test 5
		5. Verify internal flow sensor calibration, recalibrate as necessary.
		6. Replace Sensor PCB
Error 23 – Deviation High	Coefficient (b) too low	Ensure that system is leak free by running system test.
		Ensure that the proximal sensor is correctly connected to the tubing system and that its outlet is open.
		3. Replace proximal sensor
		Perform re-zero of pressure transducers, fab test 5
		5. Verify internal flow sensor calibration, recalibrate as necessary.
		6. Replace Sensor PCB

Error 24 – Deviation	Coefficient (b) too high	1. Enguro that avatam is last free by
High	Coomoioni (b) too mgm	Ensure that system is leak free by running system test.
		Ensure that the proximal sensor is correctly connected to the tubing system and that its outlet is open.
		3. Replace proximal sensor
		4. Perform re-zero of pressure transducers, fab test 5
		Verify internal flow sensor calibration, recalibrate as necessary.
		6. Replace Sensor PCB
Error 25 – Saving Data	NVRAM Damaged	1 Replace proximal sensor
		2.Perform NVRAM test
		3.Clear & Test NVRAM, recalibrate device.
		4. Replace controller PCB
Error 26 – Emptying Tank	Error Emptying Tank	Ensure that patient wye is open at the beginning of system test.
		Verify that PV1 is opening and flow is evident from to patient port.
		3. Replace Inspiratory Valve PV1
		 Verify no leakage through blender system.
Error 27 – Low Pressure	Pressure P2 < 15 mbar	Ensure that that the flow sensor outlet is blocked during compensation test.
		2. Replace proximal flow sensor
		Perform calibration of proportion valve PV1.
Error 28 – High Pressure	Pressure P2 > 40 mbar	1. Replace proximal flow sensor
		Perform calibration of proportion valve PV1.
Oxygen Sensor		
Error 2 – Saving Data	NVRAM Damaged.	1.Replace O2 Sensor
		2.Perform NVRAM test
		3.Clear & Test NVRAM, recalibrate
		device.
Error 3 – Deviation High	Error during polibration of	4. Replace controller PCB
Lifor 3 – Deviation righ	Error during calibration at 100% setting.	Ensure O2 supply is connected and adequate flow available.
		Ensure O2 Sensor connected correctly.
		3. Replace O2 Sensor.
		 Confirm that inlet check valves CV1/2 are correctly installed and undamaged, replace as necessary.
		5. Replace Sensor PCB.
		6. Replace O2 Sensor interface block.