



OXYGENALARMS.COM

# Advanced Interactive Response Systems

## Oxygen Innovations

### PROBLEM

**Chronic Obstructive Pulmonary Disease (COPD)** is the third largest cause of death worldwide. Millions of COPD patients must rely on oxygen therapy. Issues such as a depleted oxygen tank or disconnected tubing can lead to **life-threatening issues**.

Due to lack of accurate monitoring once discharged from the hospital there is a 25% readmittance rate to the hospital in 30 days. Therefore, so it is not fully reimbursed.

### MET SOLUTION

**AIRS is an FDA registered company** that has launched our Class One solution. The **Moisture Exchange Tubing (MET)** is the first portable humidifier for oxygen. The tubing is bacteria static and takes the water from the air. It provides six months of humidification.



### POC SOLUTION



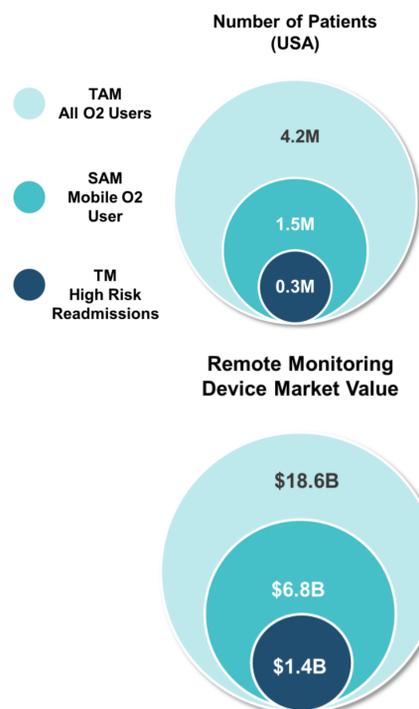
We continue to innovate with a new **Portable Oxygen Concentrator (POC)** an FDA Class University. This POC creates oxygen with a new sieve bed of zeolites, that can give higher flows of oxygen with our remote monitoring.

### OFM SOLUTION

AIRS has two pilot studies underway for our **Oxygen Flow Monitor (OFM)**. It remotely monitors supplemental oxygen patients and provides key information (such as SpO2 levels, PPG waveform, pulse, oxygen flow and tank status) to be monitored in real time by Respiratory Therapists to ensure proper oxygenation. We are fundraising to complete our FDA Class Two 510k submission and launch our OFM.



### USA MARKET

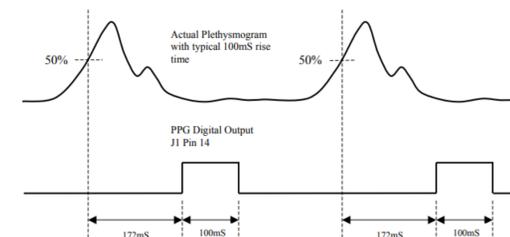


### AIRS APP SOLUTION

**AIRS OFM and POC can use their app portal that allows Respiratory Therapists to remotely monitor the oxygen user** and can send messages. Family members and caregivers can view their oxygen status anytime. This will allow the oxygen users to "Breathe Easy".



The Photo Plethysmogram (PPG) Digital Output is a 100msec wide signal indicating pulse detection. The PPG output occurs 172msec ± 1msec after the middle of the pulse inrush. The 172msec latency is based upon a typical pulse inrush rise time of 100msec.



AIRS has partnered with Nonin for their PureSAT pulse oximetry sensor that even transmits the **Photo Plethysmogram (PPG) Digital Output**. This feature allows the Respiratory Therapist to tell if artifact or true pulse oximetry readings, ensuing quality data. AIRS remote monitoring allows for a new \$3,000/per year revenue stream due to the use of the reoccurring monthly reimbursement CPT codes.

### COLLABORATORS

