# Vapor Emission Control System

In accordance to Marine Classification Society and U.S.C.G.46 CFR39.20-1 Requirements

#### **Features**

- High Reliability
- Easy to Operate
- Faulty Alarm
- Easy Installation
- Easy Maintenance
- Intrinsically Safe

### **Class Approval**

- Class NK
- Lloyd's Register
- American Bureau of Shipping
- Det Norske Veritas (DNV)

## **Principle of Operation**



VECS – Vapor Emission Control System is design using electrochemical gas diffusion principal for monitoring of oxygen content. The sensing unit is a two wire 4~20mA gas transmitter incorporating a sensor and microcontroller. It measures the oxygen content and provides an output via marine cable to the digital indicator in the Cargo Control Room. When the reading of the oxygen content is higher than the set point, the alarm annunciator gives an audio and visual alarm. Additionally, a Pressure Transmitter using piezoresistive sensor design can be fitted for the monitoring of pressure on the return line.

#### **Application**

VECS is developed to comply with Classification Societies & U.S.C.G. requirement to monitor the oxygen level in the cargo vapor recovery line. It is design to operate onboard marine vessel to meet terminal requirements of Oil Major.

Suitable for marine and offshore installations in chemical parcel tanker, chemical/product tanker, oil tanker, crude oil carrier, FSO, FPSO etc.

# **TECHNICAL SPECIFICATION**



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