

SNIFFER BUOYS FOR REMOTE EMISSION MONITORING

Finnish companies Meritaito Ltd and KINE Ltd have jointly developed the Sniffer Buoy for monitoring of ship emissions. The Sniffer Buoy is a polyethylene buoy with emission monitoring instruments capsulated inside.

What is Sniffer Buoy monitoring and why?

Sniffer Buoy connected with AirNow monitoring system is used for monitoring vessel emissions compliance in respect to IMO2020 regulations. Service covers monitoring several gasses and is capable of analysing the Fuel Sulphur Content and other exhaust analyses of passing ships.

Sulphur content in fuel oil is regulated globally since January 2020. The monitoring and compliance are handled by governments and other authority parties to protect people and environment.

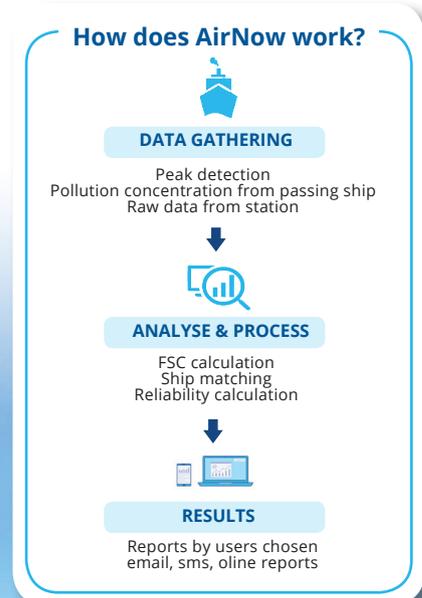
AirNow Emission Monitoring

Monitoring system tracks the exhaust fumes of nearby vessels. When a confirmed recording happens, AirNow system detects it and connects the record to right vessel by analyzing several factors (i.e. location, wind, humidity, temperature, ambient pressure, AIS data, position data).

AirNow is a service that consists of:

- Measuring instrument to gather data including several sensors and analyzers built into one device
- Analyzes and processing of gathered data on cloud servers
- Cloud platform for easy to use reports

How does AirNow work?



Benefits of Sniffer Buoy

Sniffer Buoy enables easy emission monitoring in locations where fixed Sniffer Stations are not possible. Installation location is the key in remote emission monitoring, as the exhaust fume moves with the wind. The Sniffer Buoy may be installed almost anywhere and is easily moved to adjust to seasonal winds or changes in vessel operation moves.

Benefits of Polyethylene Buoy

The polyethylene shell provides robustness and conspicuity that is equal to conventional steel buoys, while the structure allows housing of modular components inside the buoy. Due to the shape and center of gravity the movements of the buoy are modest. The polyethylene buoy and the mooring are light and easy to handle and install. The Sniffer Buoy is available in all IALA colors for simultaneous use as navigational aid.

Technical details

The Sniffer Buoy is equipped with high-accuracy measuring instruments. The monitoring system is fully automatic and online 24/7. The system is completely self-sustained and requires no battery changes or additional onsite maintenance. The Sniffer buoy is equipped with its own SPU (Solar power unit).

The monitoring is supported with sensors and devices providing additional data and functionality required for the SO₂ monitoring including:

- Data connectivity
- Local AIS data
- Local weather data

Further information

Polyethylene Buoy: Sales Manager Kari Pohjola
kari.pohjola@arctia.fi, tel. +358 40 571 3193

AirNow Emission Monitoring: Technology Director
Kimmo Salonen, kimmo.salonen@kine.fi,
tel. +358 50 469 4001

