



# Drōv

Technology for the Long Haul



**AirBoxOne<sup>TM</sup>**

# DRÖV SMART TANKER POWERED BY AirBoxOne™



AirBoxOne™ provides multiple solutions to raise your tanker's IQ. It combines Dröv's proven and patented tire management system with smart electronic technology to unify tanker sensors into one integrated, user-friendly platform. Using wired and wireless technologies, AirBoxOne provides the most robust platform for aggregating smart solutions and sensors around the tanker, today and in the future. This way, key operational and safety information flows directly from the vehicle to the fleet and the driver. AirBoxOne also goes beyond tire-pressure monitoring, providing integrated and electronically controlled tire management that inflates and deflates based on load. AirBoxOne doesn't stop there: Additional sensors detect everything from wheel-end temperature and load weight to extreme G-forces. Exterior and rear view cameras give visibility to the loading and unloading processes. Through the Vehicle Health Display, the mobile app and the web dashboard, alerts and notifications are wirelessly communicated to the cab and stored in the Cloud, making pre- and post-trip checks more efficient. AirBoxOne assists the driver today and is uniquely positioned for an autonomous future.

## CAPABILITIES

Dröv delivers a comprehensive smart tanker solution by integrating smart components and sensors into the tanker through its AirBoxOne platform. AirBoxOne can read any sensor on the tanker, change and control tire pressure, enable camera setups on the tanker, and connects to the driver. With all that data gathered, Dröv relays diagnostics in real time to the driver and to the fleet, enhancing safety, security, tire life, fuel economy and operational efficiencies, all while reducing maintenance cost and downtime.

Dröv's AirBoxOne brings to the market a first-of-its-kind open and agnostic platform, a central gateway able to connect to a myriad of sensors and integrate with other third-party

smart solutions around the tanker. One subscription, one comprehensive solution.

Fleets can leverage this data to improve preventive maintenance, increase operational efficiencies and asset utilization, decrease maintenance costs, and improve their safety record. Dröv helps fleets more effectively manage their rolling assets and gain confidence that they are being operated safely on the road. All of this becomes ever more important with the future expectations of operating fully autonomous trucks, which would in effect remove the driver from the cab. That will make a full communication link between the tanker and the truck nothing less than essential.

## RETURN ON INVESTMENT

With AirBoxOne, you'll realize a measurable return on your investment, thanks to gaining significant operational, financial and safety benefits, including:

- ◆ Enhanced proactive maintenance practices and timing using real-time data
- ◆ Increased load efficiency and capacity
- ◆ Reduced cost-per-mile and lessened potential for roadside incidents
- ◆ Improved asset utilization by locating and deploying idle or underutilized assets
- ◆ Reduced potential CSA violations and costly downtime, which could result in missing delivery requirements
- ◆ Extended life of your tanker assets
- ◆ Improved service to YOUR customer

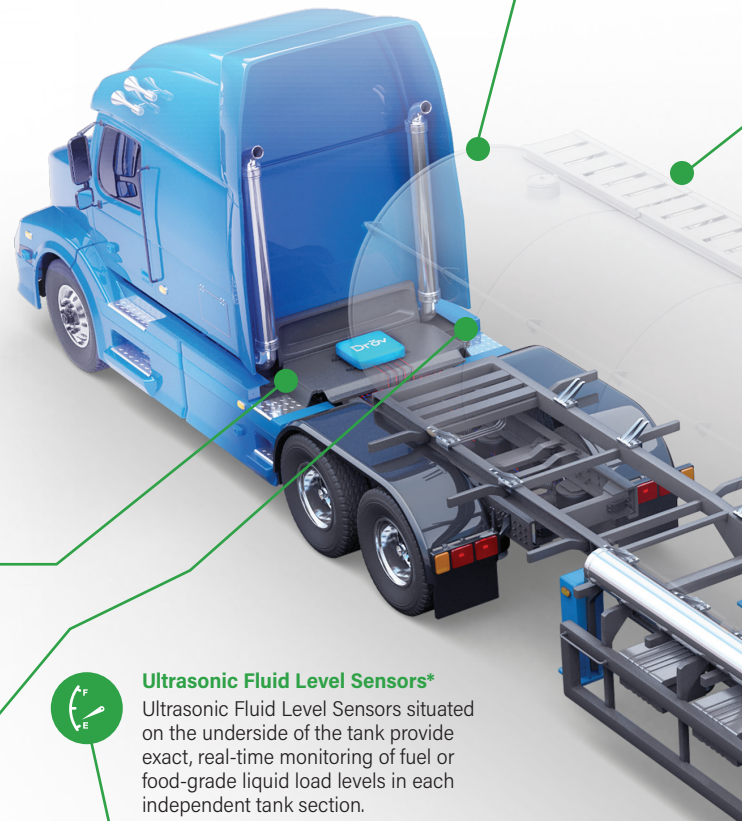
Deploying AirBoxOne on your fleet of tankers will provide you with real-time, actionable information and answers to questions you didn't even ask!

# AirBoxOne™ PROVIDES MORE DATA TO

Dröv's AirBoxOne features state-of-the-art technology. This system captures and sends multipoint operational data to your logistics center. Adding Dröv's AirBoxOne to your fleet brings a new level of analytics to your operation's bottom line. The system provides multiple solutions to make tankers smart and can be customized to meet the specific needs of a fleet.

\*Smart Solutions in field testing

**Light Out Detection\***  
The driver and fleet will be alerted when there is a light out on the tanker; provided by Grote.



#### Vehicle Speed & Accelerometer

The system monitors real-time vehicle speed. The accelerometer allows monitoring tanker movement when unconnected to tractor power or air-connected and also monitors for harsh impacts.



#### GPS Location & Route Tracking

Real-time GPS tracking occurs when the vehicle is running. Live trips can be monitored, and all tanker trips are stored for retrieval as needed. The system will also keep a record of the number of days parked.



#### Wheel-End Temperature & Vibration

AirBoxOne integrates with SKF TraX Wheel End System to monitor wheel end vibration and temperature.



#### Ultrasonic Fluid Level Sensors\*

Ultrasonic Fluid Level Sensors situated on the underside of the tank provide exact, real-time monitoring of fuel or food-grade liquid load levels in each independent tank section.



#### Adjustable Angle Digital Thermometer\*

Externally-mounted Digital Thermometer accurately displays and AirBoxOne records internal fluid chamber temperature which can assist in proving proper temperature standards were maintained during transportation.



#### Brake Pressure Monitoring

AirBoxOne integrates with the brake air supply system to monitor both parking and service line pressure for the system.

#### Advanced Brake Pressure Monitoring

AirBoxOne integrates with numerous advanced brake applications to monitor parking and service brake pressures at each individual wheel end.

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AND THIS IS JUST THE BEGINNING...TALK TO US ABOUT HAV

# YOUR OPERATION



## Exterior Cameras for Safety & Security

Exterior cameras provide visibility around the tanker. Constant communication through the mobile app provides visibility along the side of the tanker *allowing you to monitor* loading and unloading for both safety and training purposes.



## Automated Tire Inflation/Deflation

Individual tire PSI levels are monitored against the PSI setpoint designated by the fleet. The driver and fleet will be notified when the PSI level differs from the setpoint and the system will automatically adjust the level up or down as required. Tire inflation/deflation is available through the DröV system and has the capability to integrate with other providers.



## Tire Pressure Monitoring System

TPMS sensors monitor individual tire pressure and temperature.



## Solar Panel Power Recharging

The solar panel provides a backup energy source for the system. An alert will notify you when the solar panels are actively recharging the backup battery.



## Rear-View Camera\*

Rear-view camera provides visibility behind the tanker. Constant communication through the mobile app eliminates blind spots and assists with safe parking and backing up as well as rear vehicle proximity as the tanker moves down the road.



## ABS Fault Notification

AirBoxOne integrates with multiple brake manufacturers to monitor the ABS system. The driver and fleet will be notified if ABS faults occur (with codes and description) or if ABS is not getting power when connected to the tractor.



## Ultrasonic Backup Sensors\*

Ultrasonic sensors for backup proximity provide audible cues and visual aids to the driver for backing up, parking and vehicle proximity awareness. Paired with the rearview camera, these sensors provide ultimate visibility for the rear of the tanker.



## Air Tank Pressure

AirBoxOne monitors the air tank pressure.



## Weight on the Axles

The weight sensor reads and provides the weight of the cargo load on both spring and air suspensions.



## Disc Brake Pad Wear Indicator

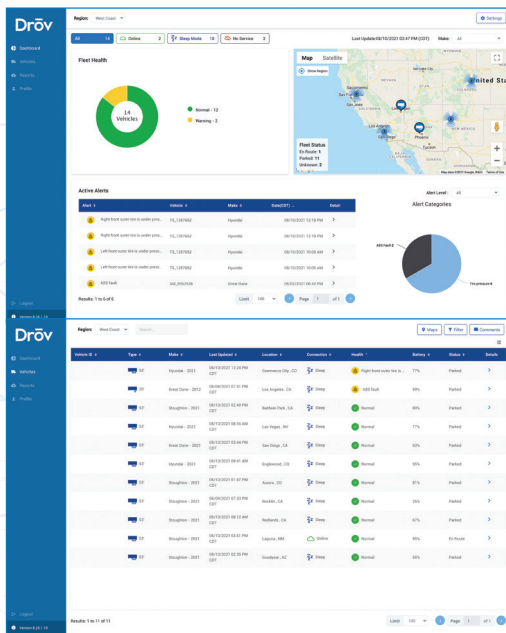
AirBoxOne integrates with brake manufacturers to alert fleets when brake pads need to be replaced.

ING **AirBoxOne**™ INSTALLED ON YOUR TANKERS WITH YOU

# VEHICLE HEALTH DISPLAY

Dröv provides an additional way to immediately view health data from the AirBoxOne using the externally mounted Vehicle Health Display. The Vehicle Health Display provides the monitored health status of the tanker at the press of a button. Health status for tires, lights and ABS are displayed. The data indicates the readiness of the tanker and can be used to facilitate the following:

- Driver Pre-Trip Inspection Display
- Maintenance & Service Communication
- Yard Check Inspection Display



# CLOUD COMMUNICATIONS

Receive real-time health alerts whenever there is a change in conditions as detected by the various sensors configured with AirBoxOne. These alerts, along with real-time information on tanker status, location, etc. are transmitted via secure Cloud communications to authorized Dröv web-based mobile or desktop users, and provided to fleets via an available software API. The driver will be notified via mobile app when system alerts are triggered for issues with tire pressures, brakes, hubs, lights out and other warnings. Through the rear-view camera and ultrasonic sensors, drivers and autonomous power units now have visibility behind the tanker.

# POWER

AirBoxOne primarily runs on auxiliary power and has a backup battery and solar charging. These three power sources are redundant to make sure the system can always function. Whether due to a worn-out socket, a bad cable or a blown fuse in the tractor, sometimes auxiliary power is either intermittent or not available. The solar power charges the backup battery in absence of auxiliary power and allows for frequent wake-ups of AirBoxOne when the tanker has been sitting on location for longer periods of time.

ORDER YOUR NEXT TANKER ORDER AND IMPROVE YOUR BOTTOM LINE.

## Who is Drōv?

Innovation begins with disruption — new ideas, novel approaches and evolved expertise. We are innovators in the smart truck and trailer movement, creating solutions for every type of fleet.

Our mission is to deliver future-facing, durable systems to enhance client profitability and safety.



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Brochure contains AirBoxOne features as of print date.  
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