



# Application Tech Sheet

## Diesel Oil Storage

**Industry:** Petrochemical, Oil and Gas, Power

Tank farm, Power plant, Oil and Gas manufacturing, Chemical manufacturing

**Application:** Diesel Oil Storage

Finish product storage, Raw material storage and Transportation level detection.

**Critical Factors:** Low Cost, Reliability, Ease of Installation, Explosion Proof

- echOsonix can be half the cost and more reliable than other technologies on the market.
- Oil spills are an environmental hazard and are expensive to clean up.
- echOsonix units are available in many industry standard sizes.

What to watch for: Steam, Foam, Condensate

- Mixed vapors
- Blankets
- Chemical compatibility
- Explosion proof requirements
- Tank shape, material and possible internal structures (i.e. ladders, supports, beams)

**Installation:** Pre-existing mounting can be used to install the echOsonix transmitter and it can be fitted to the current process connection size.

**Use SOR®:**

### Advantages

- Explosion-proof, line-powered unit
- Remote mounted electronics for easy access and protection from process temperatures
- Modbus communications is a no-cost feature on all line powered units

### Benefits

- Works well in standpipes and stilling wells
- Various process connection sizes are available

### Key Questions:

1. What are you using to measure levels now?
2. How often do you get failures?
3. How costly is an overflow?
4. Do you have the PLC capability to use Modbus?



### Ultrasonic Paradigms:

Ultrasonics are not explosion proof and do not have any chemical compatibility. *echOsonix overcomes this with a variety of material options for chemical and temperature durability.*

### Other Technology Options:

- Radar, Microwave – can't adapt to changing specific gravities
- Mechanical float, Pressure transmitter – Moving parts wear out, Material compatibility

### Similar Applications:

- Any liquid level storage