



Application Tech Sheet

Chemical Storage

Industry: Pharmaceutical, Chemical/Petrochemical, Paint, Soap, Toothpaste, Fertilizers
Most large manufacturing plants, tank farms, oil refinery

Application: All Phases of Manufacturing and Storage

Critical Factors: Explosion-proof Rating, Reliability

Because of the chemical environments of these applications, explosion-proof ratings are a requirement. Remote electronics allow for easy access for increased safety. Reliability and low maintenance costs go hand and hand with echOsonix; because of its high reliability, there is little need for maintenance.

What to watch for: Mixed vapors, Blankets, Tank material, Material compatibility,
Vacuum, Tank material, Blankets

Installation: To ensure an accurate reading, the location of the fill stream should be considered during installation. The electronics location is important because of the explosive environment and for ease of accessibility. Health hazards are another factor to consider during installation.

Use SOR®:

Advantages

- Low cost
- Reliability
- Remote mounting of electronics
- Explosion-proof integral line powered unit

Benefits

- High performance from a low-cost package
- High reliability

Key Questions:

1. Where is the possible location of the unit in relation to the fill stream?
2. What distance/amount of remote cable is needed?
3. What level of EXPF rating is required?



Ultrasonic Paradigms:

Ultrasonic transmitters are not chemical resistant or explosion proof and cannot handle a lot of condensate. *echOsonix disproves this by providing a high power pulse that is not phased by condensation and comes with explosion-proof ratings in a robust housing.*

Other Technology Options:

- Pressure switch, Radar transmitter, Microwave – a high cost, regular maintenance
- Capacitance/RF – stress on RF probe will cause damage and unit failure

Similar Applications:

- Any liquid level or bulk solids applications