

T-Type Acoustic Inspection System



The T-Type Acoustic Inspection System measures the volume and topology of sludge sediments in the bottom of liquid storage tanks (e.g. crude oil). The system includes an ATEX-certified tool that is inserted into the tank through a suitable access hole in the roof until fully submerged in the liquid. The end of the tool has an angled phased array that produces acoustic beams to scan a sector of the tank floor and wall.

The PC based data acquisition produces a 3D display of the sediment layer and calculates the volume of sediment using the known geometry of the tank. Sector data from multiple entry points can be combined to give 100% coverage of the tank floor.