

ULTRASONIC SELECTION GUIDE

This guide provides general rules for the selection of appropriate OMEGA ultrasonic technology—it is neither exhaustive nor absolute. System factors such as temperature, pipe materials, suspended solid composition and liquid velocity can influence product selection. It is best to present application information to an OMEGA sales representative. OMEGA offers

the most comprehensive line of ultrasonic transit time and doppler flow meters in the world. These meters are clamp-on, non-invasive flow meters that require a good acoustical path between the outside of the pipe and the liquid inside. Please consult a OMEGA sales representative to discuss the use of these products in your flow measurement application.

Liquid Type (In Order of Increasing % of Suspended Solids)

**Transit Time
Typical Applications**



FDT-21



FDT-40



FDT-30



FDT-21W



FDT100

- ✓ Ultrapure Liquids
- ✓ Deionized Water
- ✓ Water Filter-Bed Effluent
- ✓ Hydraulic Oil
- ✓ Refined Hydrocarbons
- ✓ Beverages
- ✓ Well Water
- ✓ Reclaimed Water
- ✓ Cooling Tower
- ✓ Ground Water
- ✓ Raw Sewage
- ✓ Gray Water
- ✓ Beverages-Carbonated

Hybrid Ultrasonic




FDH-1




✓ Switchable for Transit Time Sensing or Doppler



Doppler Typical Applications



FD613



FD400

- ✓ Waste Activated Sludge
- ✓ Return Activated Sludge
- ✓ Mining Slurries
- ✓ Filter Backwash
- ✓ Paper Pulp Stock
- ✓ Dredging Applications
- ✓ Preprocessed Crude Oil
- ✓ Primary Sludge
- ✓ Lime Sludge
- ✓ Digested Sludge
- ✓ Concrete