SI-7000 LTD Specifications

The NEW SI-7000 LTD is the most dependable solution for level, temperature, and density profiling in LNG & LPG Storage Tanks. The NEW SI-7000, a third generation LTD from Scientific Instruments was designed to meet today’s demanding safety regulations. Now on smaller footprint, built-in intuitive keypad/display, optimized performance, reliability and accuracy. The SI-7000 Probe has dedicated sensors for level, temperature and density measurements, all embedded into a robust stainless steel housing.

All components exposed to Zone 0 & 1 are constructed of stainless steel, offering superior corrosion resistance. The SI-7000 now features an entirely re-designed jam-proof vertical-gear-drive mechanism (VGD), combined with a robust stainless steel chain resulting in trouble-free most reliable profiling performance in LNG & LPG storage tanks.

Level
- Range 56 m
- Resolution < 1 mm
- Accuracy < ±2 mm
- Top and Bottom reference (micro switches)

Temperature
- Sensor Range: -200°C to +50°C (in liquid)
- Resolution: 0.01°C
- Accuracy: ±0.1°C

Density
- Oscillating Spool
- Range 400 to 1000 kg/m³
- Resolution 0.01 kg/m³
- Accuracy ±0.5 kg/m³

Physical
- Maximum Operating Pressure
  400 mbarg (for higher, consult factory)
- Protection Class
  Designed to meet IP65
- Mounting Flange
  Standard 6” ANSI 150#RF (more available)
- Sensor Drive
  Stainless Steel Chain
- Housing Material
  316 Stainless Steel
- Safety Certification
  IECEx / ATEX, cml Ex and PESO.
- Seismic Rating
  Designed to meet 3.0G (testing required)
- Stilling Well
  With or Without (Consult factory)
- Isolation Valves
  External Pinch Valve (recommended)
- Ambient Temperature
  Design: -40°C to +60°C
  Certified: -20°C to +50°C
- Dimensions
  125 (50) × 76 (30) × 37 (15) cm (in.)
  Weight: 180 (396.8) kg(lbs.)