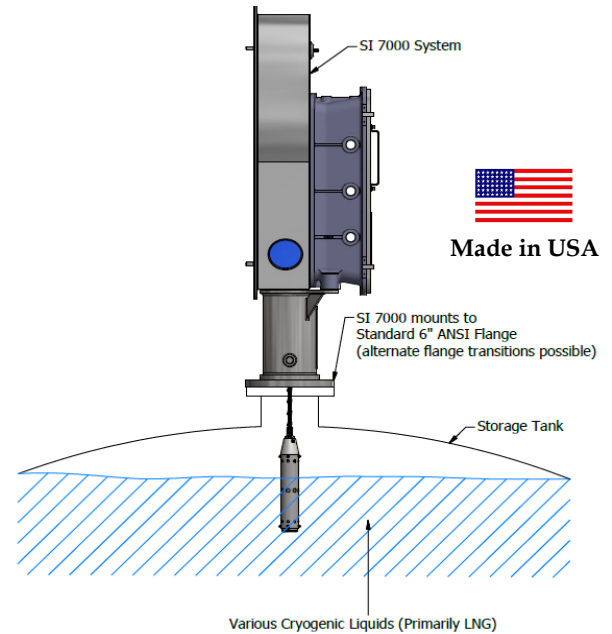




## SI-7000 LTD Specifications

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/m<sup>3</sup>
- Resolution 0.01 kg/m<sup>3</sup>
- Accuracy ±0.5 kg/m<sup>3</sup>

### Electrical

- **Power Supply**  
85-264 VAC, 47-63 Hz, 150 W
- **Communications**  
( 2 ) Standard RS-485 MODBUS  
Optional; 4-20mA, HART & Ethernet
- **Sensor Isolation**  
Intrinsically Safe

### 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.)