

**Bulk & Terminal Products Div.  
Precision Tank Gauges  
Mass Measurement**



**Consumer and Light Industrial  
Products Division  
SentryMonitors LPG, other  
fuels, and industrial fluids**

February 5, 2009

## Chemical Probes FTI-100 Inventory Gauges Mass Measurement Technology

Fueling Technologies is a leading manufacturer of inventory gauges utilizing "Mass Measurement Technology" for LPG pressure tanks, aboveground atmospheric pressure storage tanks for typical hydrocarbon products such as motor oils, gasoline, diesel, jet fuels, etc. The newer environmental fuels such as methanol and E-85 ethanol require stainless steel wetted parts.

The same technology provides inventory management for many chemicals - often requiring stainless steel wetted parts. FTI's chemical probes with 17-4 stainless steel "sealed" load cells are compatible with harsh low pressure environments such as methanol and aqueous ammonia storage.

"Mass measurement" is based on the weight of the product in the tank. The product is measured by its weight. Other variables such as gross gallons, net gallons, level, etc are computed from the measured weight of the product. Most competitive gauges measure level. The other reporting data fields such as gross gallons, etc, are derived from level.

Many chemical products are purchased and sold by weight. Many manufacturing processes use weight in the formulas that create new products.

Fueling Technologies wireless installations (Tank Send Units (TSU's) are battery powered) reduce cost as well as eliminating disrupting trenching and conduit installations to the tank farm.

Please review component materials on reverse side of this document for compatibility with your products.

# Chemical Probes FTI-100 Inventory Gauges

## Probe ordering sizes

Part Number	Description
FTI-CTPA-120	Tanks up to 120" deep, internal parts are SS, Teflon, or epoxy
FTI-CTPA-180	Tanks up to 180" deep, internal parts are SS, Teflon, or epoxy
FTI-CTPA-240	Tanks up to 240" deep, internal parts are SS, Teflon, or epoxy
FTI-CTPA-300	Tanks up to 300" deep, internal parts are SS, Teflon, or epoxy
FTI-CTPA-360	Tanks up to 360" deep, internal parts are SS, Teflon, or epoxy
FTI-CTPA-420	Tanks up to 420" deep, internal parts are SS, Teflon, or epoxy
FTI-CTPA-480	Tanks up to 480" deep, internal parts are SS, Teflon, or epoxy
FTI-CTPA-660	Tanks up to 660" deep, internal parts are SS, Teflon, or epoxy

## Probe Construction Materials

Component	Metallurgy / Synthetics
Mounting flange when used on pressure vessels	316 SS
Buoyancy tubes	316 SS
Hanger assembly	316 SS
Hanger assembly PCB	Epoxy coated
Suspension chain	316 SS
Load cell	17-4 SS
Electric wires	316 SS
Wire coating	Teflon

