

TANK-TEL®

TANK LEVEL AND PRESSURE MONITORING SYSTEM

Go digital with Chart's Tank-Tel® Liquid Level Gauge system, the industry-leading hands-free tank monitoring solution. Forget the time and hassles of calibration charts associated with traditional analog tank monitoring. The Tank-Tel system brings you a low cost, reliable and user-friendly differential pressure (DP) gauge for industrial bulk tank applications.

Featuring integrated software for digital pressure and level readouts, the Tank-Tel gauge calculates levels in real time based on the pressure in the vessel for optimum accuracy. The Tank-Tel system is designed to replace or tap inline with existing DP gauges, and is ideal for rugged, outdoor installations.

FEATURE COMPARISON

	TANK-TEL	DP GAUGES
500 psi pressure rating	✓	✓
Oxygen cleaned	✓	✓
3/4" FPT back-mount	✓	✓
Digital level readout	✓	
Digital pressure readout	✓	
No calibration charts required	✓	
One gauge for up to 20,000 gallons	✓	
One gauge for – LOX / LIN / LAR / N ₂ O / CO ₂	✓	
(8) level readouts options	✓	
(3) pressure readout options	✓	
(3) adjustable level alerts	✓	
(3) adjustable pressure alerts*	✓	
User programmable	✓	
Telemetry ready	✓	
Digital & 4-20 mA output signals	✓	
NEMA 4 water and weather tight	✓	
Equalization valve included	✓	
Integrates with other alarm systems	✓	

See specifications (back page) for full details on Tank-Tel features.



Patents - 6,782,339 • 6,944,570

PRODUCT HIGHLIGHTS

- Choice of digital liquid level and pressure readouts
(8) level choices: percent full, standard cubic feet, gallons, inches of water, pounds, normal cubic meters, liters or kilograms
(3) pressure choices: pounds per square inch, kilopascals or bars
- Operates on 12 VDC (12 VDC required for telemetry) or batteries
- Standard on new Chart bulk tanks
- Improved level accuracy–program automatically adjusts for changes in liquid density
- Programmable to match most tanks up to 20,000 gallons
- Upgrade existing tank by adding to or replacing existing gauges
- Telemetry ready – easily integrates with Cellular OnSite Telemetry with no plumbing changes
- Available in a low DP model for horizontal tanks

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Tank-Tel Gauge Specifications

Physical	Display Resolution (+/-)		
<ul style="list-style-type: none">• Approximately 8" w x 12" h x 12" d (including SS bracket)• 3/4" FPT back-mount (compatible w/ existing DP mounts)• Gauge is housed in water-resistant enclosure (NEMA 4)• Level Range: 0 - 1000" WC* (0-200" WC* for low DP model)• Pressure Rating: 500 psig maximum• Differential Pressure: 100 psig maximum (Low DP model 30 psig)	% Full = 5% gal = 5 scf (x 100) = 100 lbs = 10	liters (liquid) = 10 Nm ₃ (gas) = 10 kg = 10 In. WC = 3.3	In. WC (low DP model) = 0.7 psi = 5 kPa = 5 bar = 0.2
Power Inputs	Operating Temperatures		
<ul style="list-style-type: none">• 120 VAC power supply (indoor wall-plug use only) with 12 VDC @ 500 mA output to Tank-Tel• (2) each AA Lithium batteries (level & pressure readouts only, no telemetry)	-30° C to +70° C		
Outputs	Programmable Features		
<ul style="list-style-type: none">• (3) programmable alerts (3-level or 3-pressure) local alarm relay• (2) 4-20 mA signals (for level and pressure)• (1) pulse output for level• (2) unit of measure indicator• Level and pressure display• Low battery indicator	<i>Product Type</i> LN ₂ , LAR, O ₂ , N ₂ O or CO ₂ <i>Unit of Measure - Level</i> <ul style="list-style-type: none">• Percent Full (% Full), Liters, Gallons (gal),• Kilograms (kg), Pounds (lbs), Inches H₂O,• Normal Cubic Meters (Nm3), Standard Cubic Feet (scf) <i>Unit of Measure - Pressure</i> Pounds per Square Inch (psi), Bar, Kilopascals (kPa) <i>Alert Programmability</i> <ul style="list-style-type: none">• (3) level alerts programmable from 0 - 100% in 5% increments• (3) pressure alerts programmable from 0 - 500 psi in 5 psi increments**• Alerts programmable as normally open or closed <i>Tank Dimensions</i> diameter and length <i>Tank Orientation</i> vertical and horizontal		
Inputs			
<ul style="list-style-type: none">• 0-5Vdc input for standard DP sensor• 0-5Vdc input for optional pressure sensor			
Sensor Accuracy			
+ 2.5% of full scale			
Operator Interface	Options		
Keypad (no computer required)	Industrial Alert, Hospital Alert, Telemetry Accessories and Service		

* WC = Water Column