

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.



Patents - 6,782,339 • 6,944,570

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.

* Available in June 2015

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



Innovation. Experience. Performance.™

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Tank-Tel Gauge Specifications

Physical

- 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)

Power Inputs

- 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)

Outputs

- (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

Inputs

- 0-5Vdc input for standard DP sensor
- 0-5Vdc input for optional pressure sensor

Sensor Accuracy

+ 2.5% of full scale

Operator Interface

Keypad (no computer required)

* WC = Water Column

Display Resolution (+/-)

% Full = 5%	liters (liquid) = 10	In. WC (low DP model)
gal = 5	Nm ³ (gas) = 10	= 0.7
scf (x 100) = 100	kg = 10	psi = 5
lbs = 10	In. WC = 3.3	kPa = 5
		bar = 0.2

Operating Temperature

-30° C to +70° C

Programmable Features

Product Type

LN₂, LAR, O₂, N₂O or CO₂

Unit of Measure - Level

- Percent Full (% Full), Liters, Gallons (gal),
- Kilograms (kg), Pounds (lbs), Inches H₂O,
- Normal Cubic Meters (Nm³), Standard Cubic Feet (scf)

Unit of Measure - Pressure

Pounds per Square Inch (psi), Bar, Kilopascals (kPa)

Alert Programmability

- (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

Tank Dimensions

diameter and length

Tank Orientation

vertical and horizontal

Options

Industrial Alert, Hospital Alert, Telemetry Accessories and Service