

# TANK-TEL®

## TANK LEVEL AND PRESSURE MONITORING SYSTEM

Go digital with Chart's Tank-Tel® 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 (patent pending). 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 <sub>2</sub> O / CO <sub>2</sub>	✓	
(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.

### 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 – three choices: **1-** Reorder phone system transmits up to six alarms (3 level & 3 pressure), **2-** OnSite system transmits level and pressure plus alarms **3-** Cellular/satellite phone system transmits level and pressure plus alarms
- Available in a low DP model for horizontal tanks



Innovation. Experience. Performance.™

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### Physical

Approximately 7" w x 11" h x 5" d (including SS shroud)  
3/4" FPT back-mount (compatible with existing DP mounts)  
Gauge is housed in water-resistant enclosure (NEMA 4)  
Level Range: 0 - 750" WC\* (0-160 WC\* for low DP model)  
Pressure Rating: 500 psig maximum  
Differential Pressure: 100 psig maximum  
(Low DP model 30 psig)

### Electrical Inputs

120 VAC power supply (indoor wall-plug use only) with  
12 VDC @ 500 mA output to Tank-Tel  
Optional power - (2) each 9 VDC batteries  
(level & pressure readouts only, no telemetry)

### Outputs

(6) programmable alerts (3-level and 3-pressure)  
for phone transmission or local alarm relay  
(2) 4-20 mA signals (for level and pressure)  
(2) digital signals (for level and pressure)  
(2) unit of measure indicator  
Level and pressure display: large 5-character  
0.4" high LCD display  
Low battery indicator

**Sensor Accuracy** + 2.5% of full scale

**Operator Interface** Keypad (no computer required)

### Display Resolution ( + / - )

% Full=5%	liters (liquid)=10	In.WC* (low DP model)=0.7
gal=5	Nm3 (gas)=10	psi=5
scf (x 100)=100	kg=10	kPa=5
lbs=10	In.WC*=3.3	bar=0.2

**Operating Temperature** -30° C to +70° C

### Programmable Features

Product type: LN<sub>2</sub>, LAR, O<sub>2</sub>, N<sub>2</sub>O or CO<sub>2</sub>

Unit of Measure - Level

Percent Full (% Full), Liters, Gallons (gal),  
Kilograms (kg), Pounds (lbs), Inches H<sub>2</sub>O,  
Normal Cubic Meters (Nm<sup>3</sup>), 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

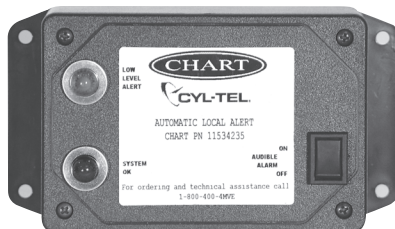
Alerts programmable as normally open or closed

Tank Dimensions: diameter and length

Tank Orientation: vertical and horizontal

**Options** Industrial Alert, Hospital Alert, Telemetry  
Accessories and Service

\*WC = water column



**Industrial Alert**

### Industrial Alert and Hospital Alert Options

The Tank-Tel® system can be connected to the industrial or hospital local alert accessories for user reorder notification.



**Hospital Alert**

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