

THE TANK TENDER

THE ORIGINAL PRECISION TANK MEASURING SYSTEM

TANK TENDER SPECIFICATIONS

- INSTRUMENT PANEL:** 1 – 5 tank panel is 6" x 4", cutout is 5-1/16" x 3-1/16"
1 – 10 tank panel is 7" x 4", cut out is 6-1/16" x 3-1/16" ; depth needed behind panel is 3"
Pneumatic cylinder hand pump and push button pneumatic valves, according to number of tanks to be measured
Includes panel mounting screws and calibrations cards for gallons to inch conversion per tank
- GAUGE:** is 2-1/2" diameter w/removable lens; sensitive, low pressure, diaphragm; duel reading std scales are 0 – 30" water/35" diesel or 60/70" with metric equivalents available; higher scales available for deeper tank depths (always best to have Excess gauge capacity)
- PURGE VALVE (PV):** unit built either with or without (gauge bypass toggle valve for waste/holding tanks) installed into instrument panel
- NYLON TUBING (NT):** 1/8" od nylon tubing (30' per tank in continuous roll included with system) runs/conducts air between valves and tanks and distance is not an issue
- TANK PENETRATION FITTING (TPF):** stainless steel fitting requires #21 drill (5/32 hole) and 10/32 Tap into tank top; comes with straight extruded 30" nylon tube attached and 1/8" tubing connector; if no tank top access, alternate TPF entry depending on tank access, please call to discuss options
- TPF EXTENDER:** for tanks deeper than 30" (60/70" gauge scale) 30" extruded straight nylon tube with brass tube union and stiffening wire inside (fits into bottom of TPF tube)

FEATURES AND ADVANTAGES

Only one instrument to measure from one to ten tanks, water, diesel and waste – check all tank liquid levels from one convenient location

- Simple self contained pneumatic operation
- Easy installation as compared to difficult and unreliable electrical systems
- No Electricity, No batteries.... just air
- High grade materials with long term reliability - stainless and brass
- Accurate to within +/- 1% upon proper installation
- Same system since 1982, all parts replaceable no matter how old the system; and older units can be sent in for re-building
- Eliminates many difficulties evolved with checking tank liquid levels
- Each unit built for exact number of tanks to be measured, with the appropriate gauge scale for the deepest of the tanks, either with purge valve or without
- Waste Tanks: Purge Valve option is a toggle valve built into the instrument panel, when toggle is on purge, air bypasses gauge, allowing air to pass from unit to tank to clear waste tank TPF tube once clear, toggle to read and retake for tank reading.
- No cross contamination between tanks
- Over 35,000 Tank Tender systems in use worldwide since 1982
- Installed as Original equipment by many first class Yacht builders, many Military vessel installs and as well can be refit to older vessels.
- Long term pneumatic reliability at a lower cost than many electrical systems

HOW DOES TANK TENDER WORK?

Simply on air. A small amount of air pressure is pumped from the instrument panel, through the nylon tubing run and through the tank penetration fitting tube inside the tank, the excess air pressure bleeds off until the air pressure in the TPF tube equals the liquid pressure at tank bottom. The gauge displays this same pressure in inches of tank liquid depth. Duel scale gauge readings due to different weight of water vs diesel.

OPERATION: depress and hold in push button valve of the tank you wish to read, accurate/pump (just do not exceed end gauge capacity) and gauge needle will rise slightly above inch liquid level and settle and hold in seconds on the exact level of liquid in the tank. Release valve button and needle falls back to zero. Calibration of gallons per inch should be done upon installation, depending on tank shape (see installation instructions, tank calibration)

HOW TO CHOOSE THE SYSTEM THAT YOU NEED:

- 1) how many tanks do you wish to measure total
- 2) select the gauge scale according to the deepest tank you wish to measure – Best to have Excess gauge capacity ***
- 3) add the purge valve option if any waste/black/grey tanks

If any questions please call Lisa @ 253 858 8481 or email hartsystems@centurytel.net