



## ***AST suggested specification***

AST (above ground non-pressurized storage tank) inventory gauge:

AST storage tank(s) shall be equipped with inventory gauging system. The gauge shall be UL-1238 listed, and tested to UL 1238 and UL 913. Gauge shall be “wireless” in operation. The Tank Send Unit mounted on the tank shall be battery powered. Data shall be transmitted to the Master Control Unit via RF signals. The Tank Send Unit shall have a free and clear line of site path to the Master Control Unit for RF signals, and the range shall be 400 feet or less. For distances and applications requiring them—system shall include either repeater stations or “patch antennas”, or combination of both. Tank send unit will mount on tank supplied with 3” riser pipe 6” high. Internal probe shall be aluminum construction, and buoyant to the specific gravity of the product. Measurement principal shall be “mass measurement” and shall provide net units of volume un-affected by temperature swings or stratification. Unit shall be installed by persons trained and certified for installation and service of hazardous location fueling systems. The indoor Master Control Unit shall be provided with capability for the number of tanks in the system (up to 30 tanks per Master Control Unit). Unit shall be expandable to the full 30 tank capability without additional hardware. Master Control Unit shall include:

- LCD display
- Membrane keypad
- 9 pin serial port (specify RS-232 or RS-485)
- RJ-11 telephone jack
- internal 2400 baud modem
- wall mounted plug in power supply

System will be supplied with polling package to be installed in host computer for calling Master Control Unit and importing the following data in an ASCII comma separated file format:

- Level (inches or centimeters)
- units (gallons or litres)
  - gross units
  - temperature compensated units
- temperature of product
- ambient temperature