



## ***LPG UST suggested specification***

Rev 02.11.20

### LPG underground storage tank inventory gauge:

LPG storage tank (s) shall be equipped with automated inventory gauging system. The gauge shall be UL-565 listed, and comply to UL 565 and UL 913. Gauge shall be “wireless” in operation. System shall be capable of operating in a underground sump or vault as long as not submerged at any time in water and shall include above ground directional antenna for each tank send unit. The Tank Send Unit mounted on the tank shall be dual 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 which has an available 2” raised face ASA 300 lb flange on schedule 80 riser pipe of 6” height. There shall be no internal obstructions below the mounting flange all the way to the bottom of the tank. Tank send unit will include a mounting flange (pass through assembly) with gasket and mounting bolts. Internal probe shall be aluminum construction, and buoyant sensitive to the specific gravity of the product. Measurement principal shall be “mass measurement”. Unit shall be installed by persons trained and certified for installation and service of LPG systems. The indoor Master Control Unit shall be provided with capability for the number of LPG 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



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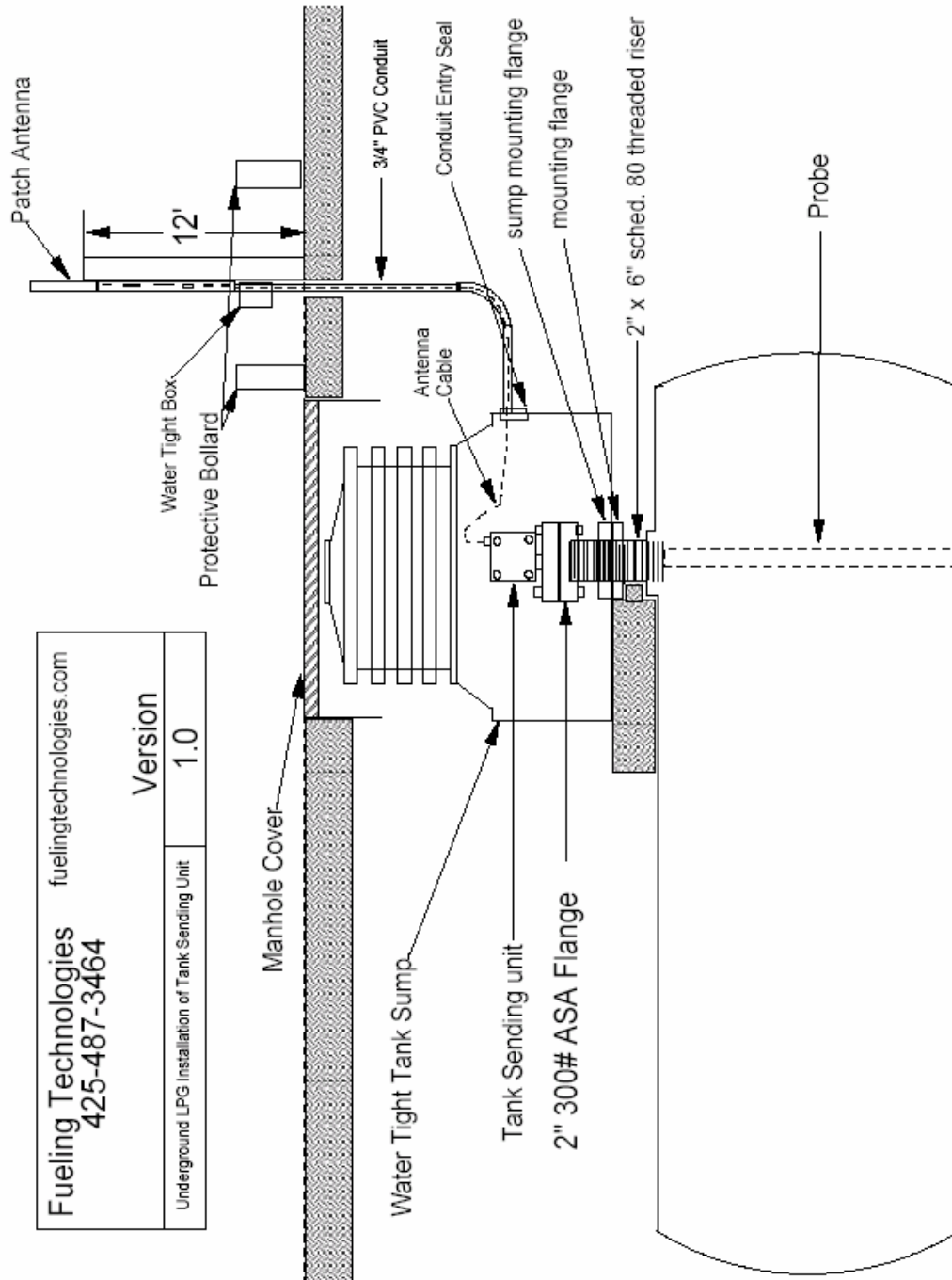
System will be supplied with polling package to be installed in host computer for calling Master Control Unit and importing the following data (English or metric) in an ASCII comma separated file format:

Level	Net volume (temperature corrected to 60° f)	Gross volume (ambient temperature)
Battery voltage (with low battery alarm indication)	Net volume of liquid in vapor space	Gross volume liquid in vapor space
% of Full Capacity	Total net volume in tank	Total gross volume in tank
Tank temperature at the load cell (sensor)	Average temperature of product	Vapor Space Temperature



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Fueling Technologies 425-487-3464 fuelingtechnologies.com	
Underground LPG Installation of Tank Sending Unit	Version 1.0

This CAD drawing available via email in .dwg or .dxf format upon request